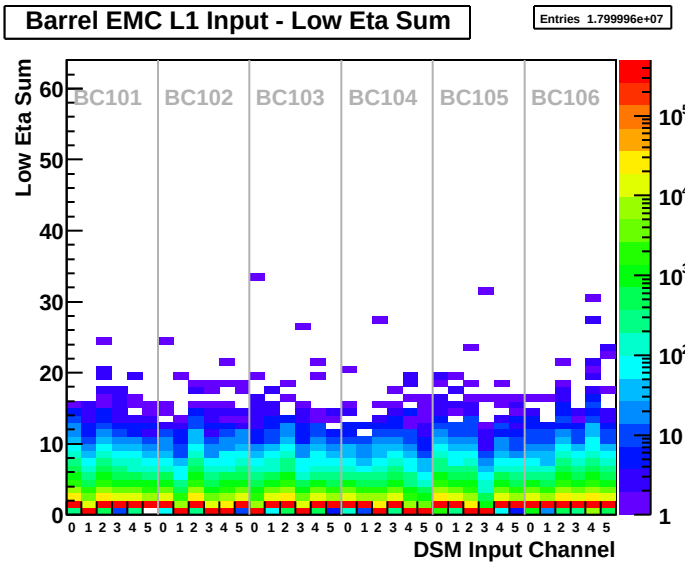
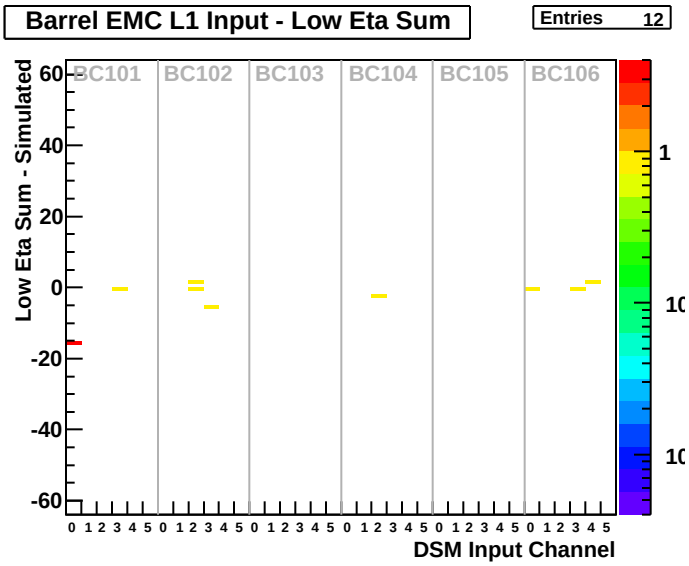
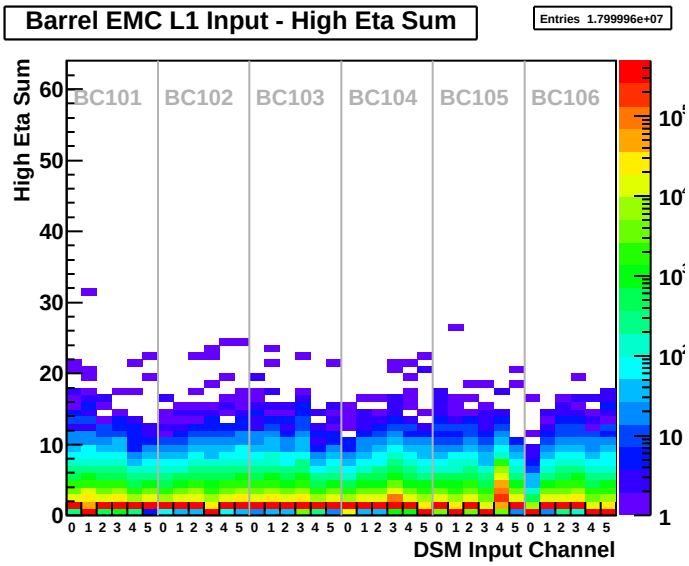
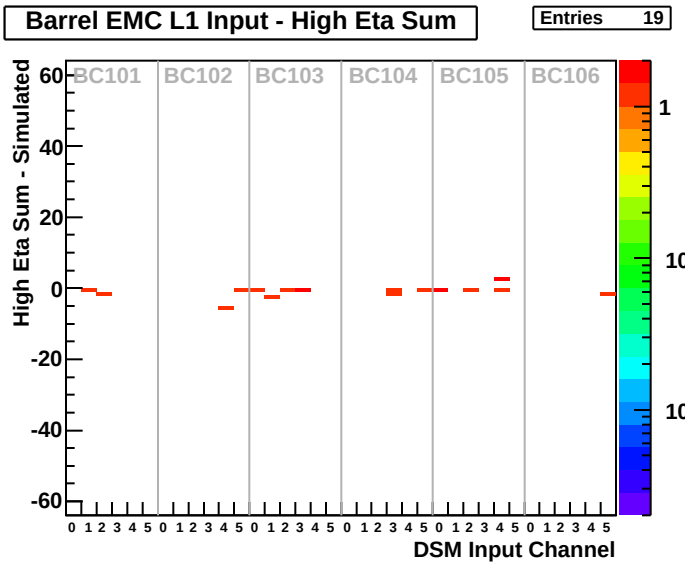
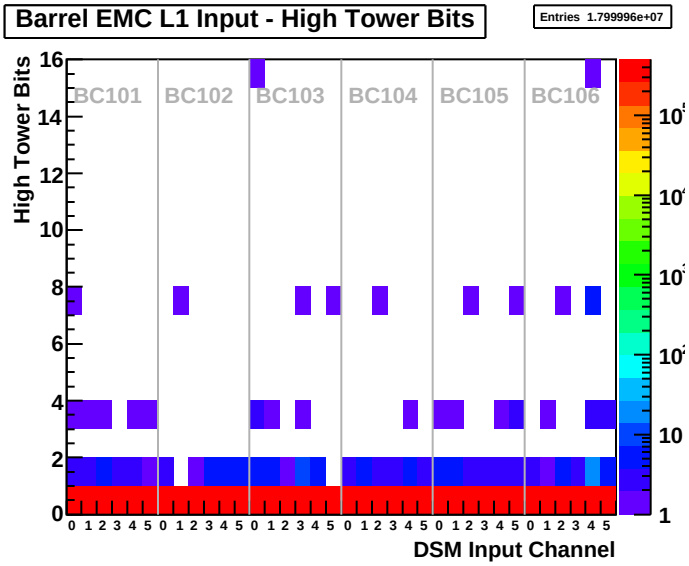
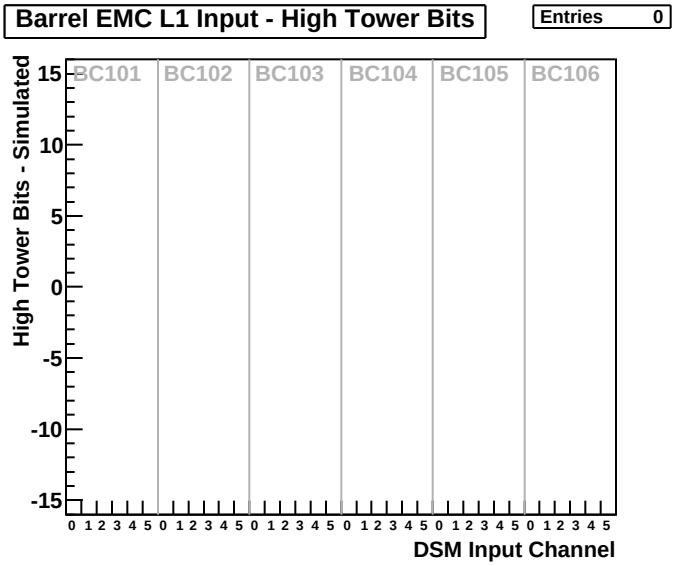

Barrel EMC L1 Input - Low Eta Sum
Entries 1.799996e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

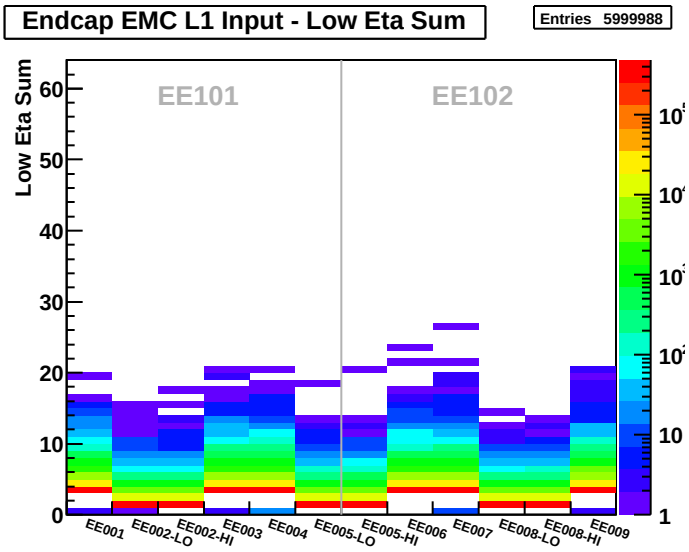

Barrel EMC L1 Input - Low Eta Sum
Entries 12
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

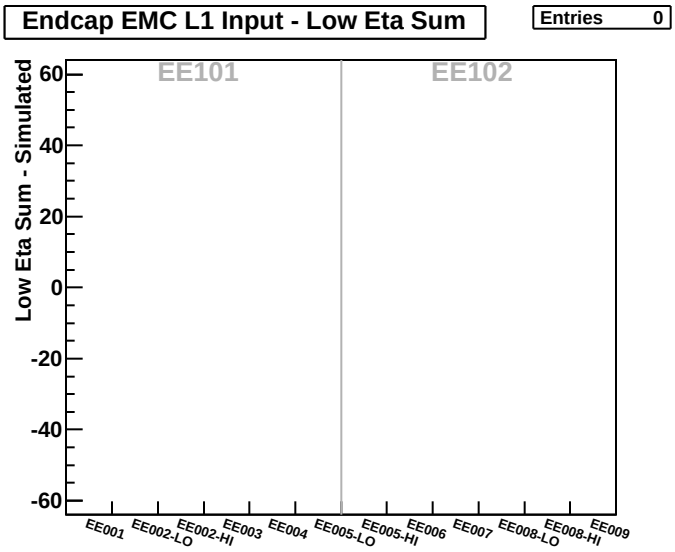

Barrel EMC L1 Input - High Eta Sum
Entries 1.799996e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

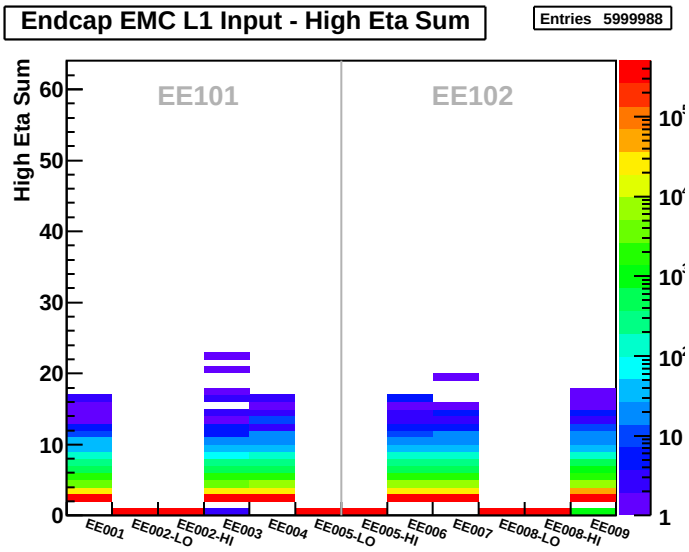

Barrel EMC L1 Input - High Eta Sum
Entries 19
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

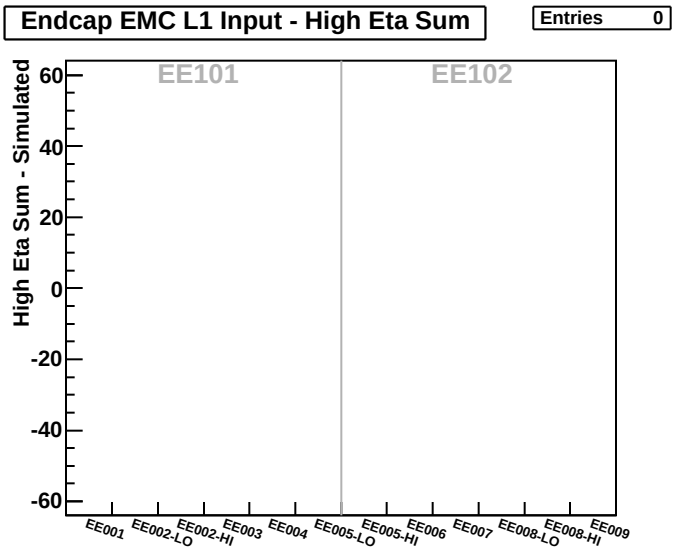

Barrel EMC L1 Input - High Tower Bits
Entries 1.799996e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

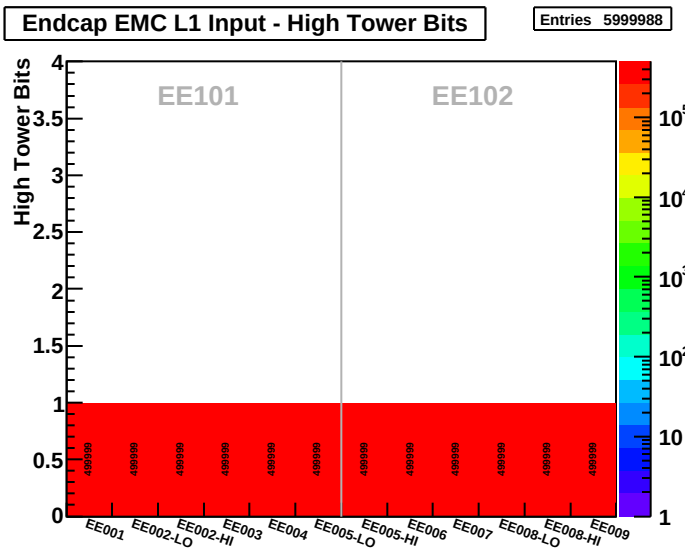

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

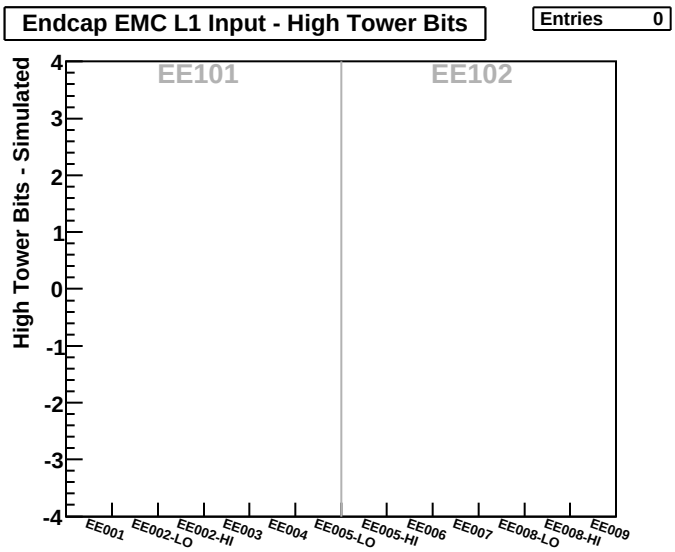

Endcap EMC L1 Input - Low Eta Sum
Entries 5999988
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

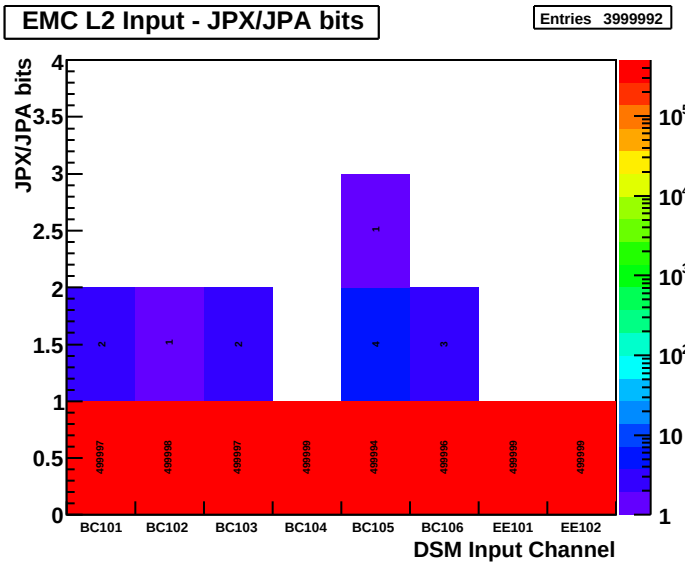

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

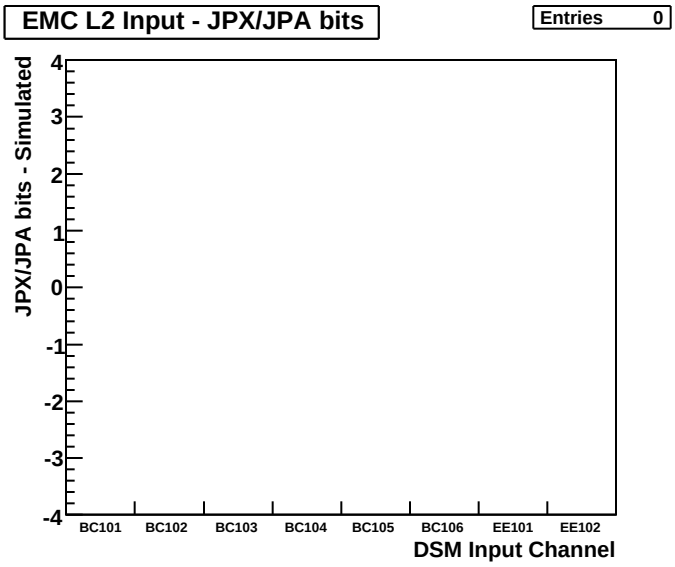

Endcap EMC L1 Input - High Eta Sum
Entries 5999988
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

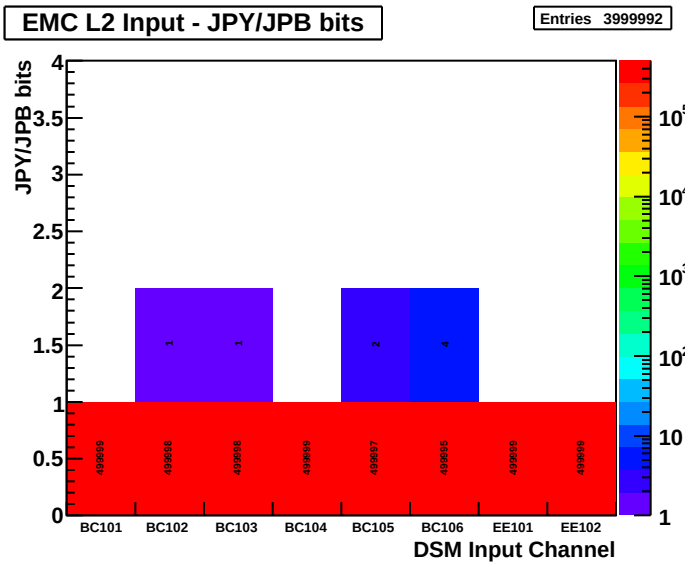

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

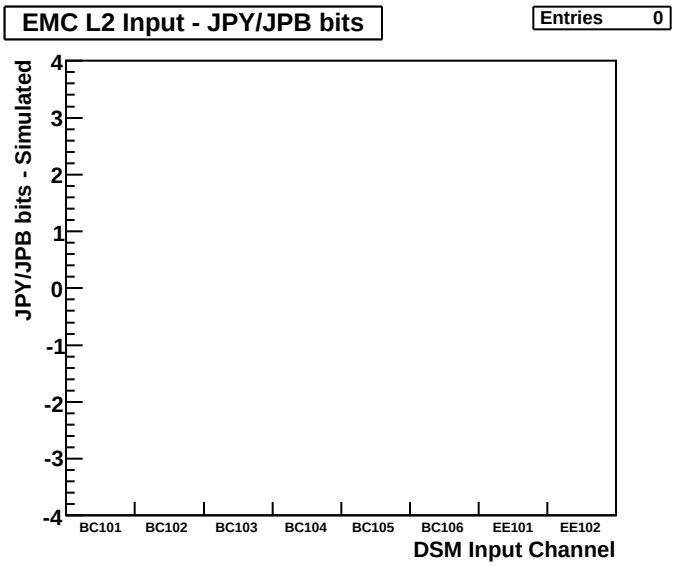

Endcap EMC L1 Input - High Tower Bits
Entries 5999988
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

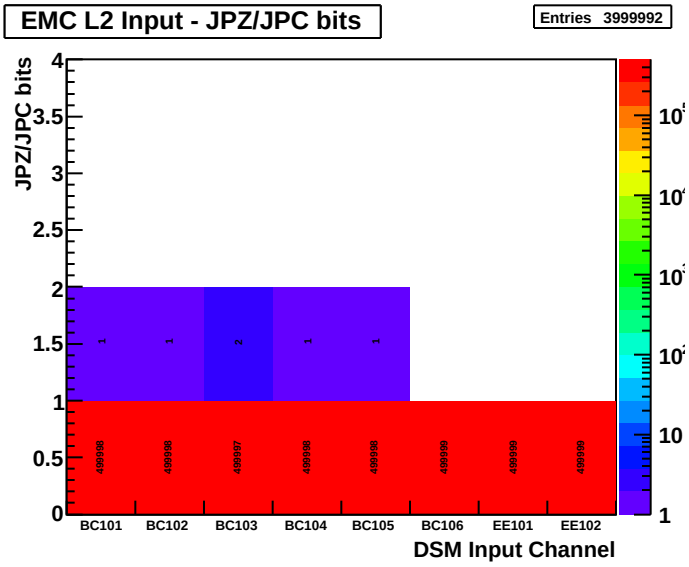

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

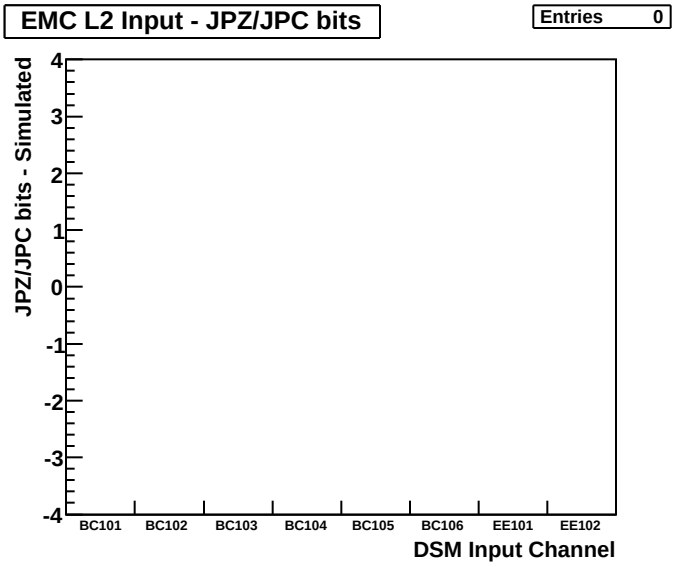

EMC L2 Input - JPX/JPA bits
Entries 3999992
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

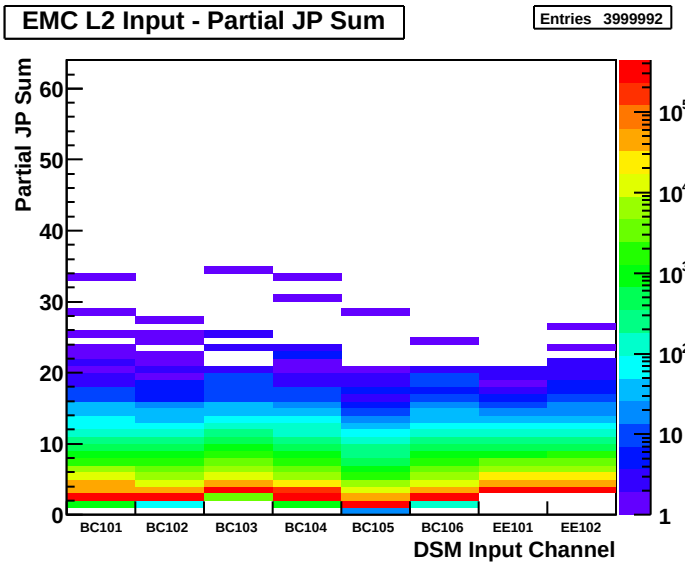

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

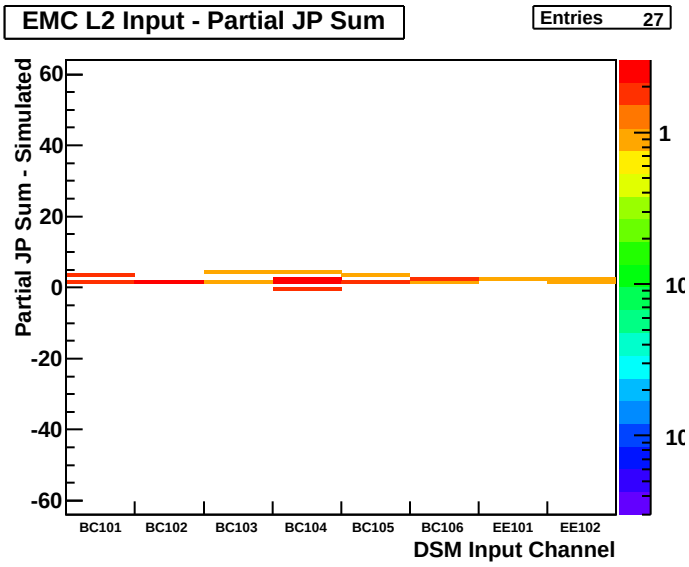

EMC L2 Input - JPY/JPB bits
Entries 3999992
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

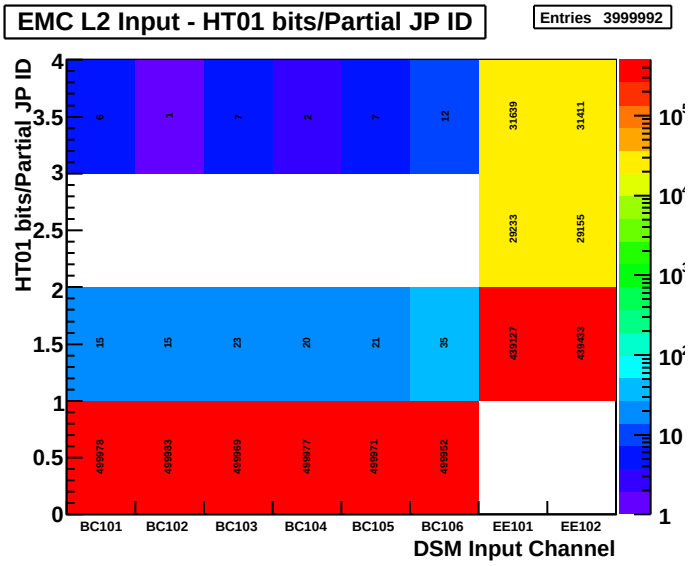

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

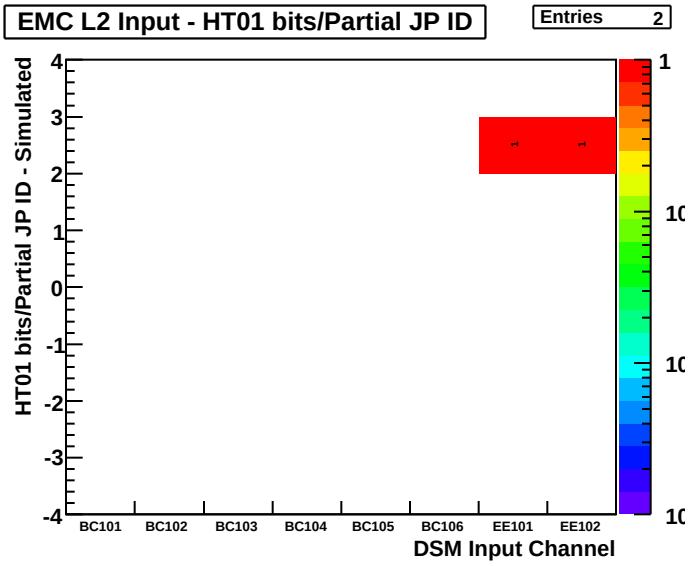

EMC L2 Input - JPZ/JPC bits
Entries 3999992
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

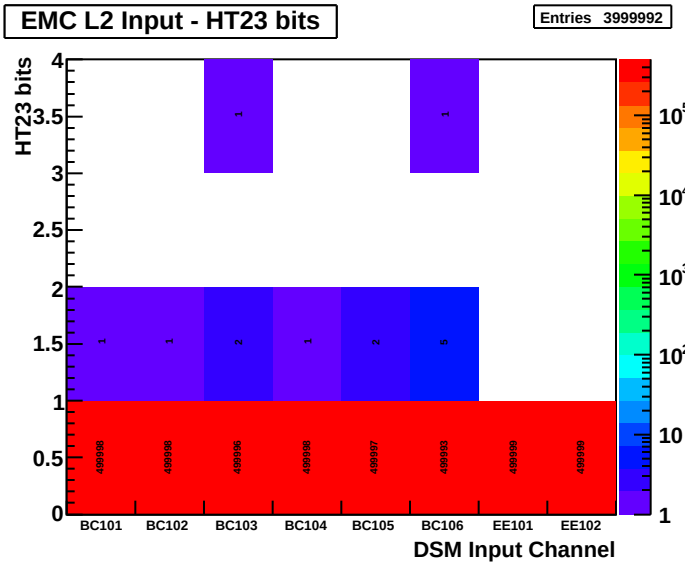

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

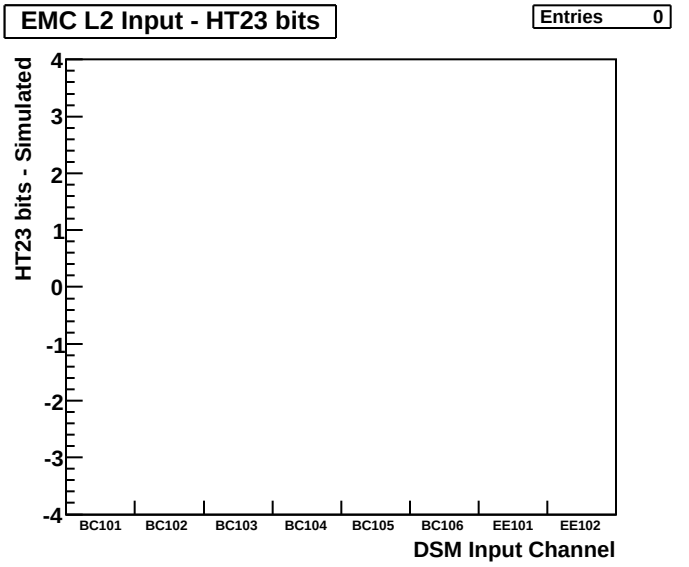

EMC L2 Input - Partial JP Sum
Entries 3999992
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

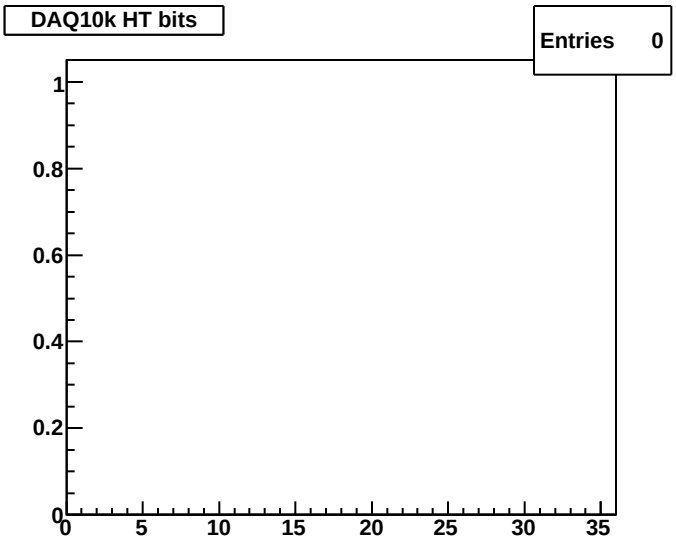

EMC L2 Input - Partial JP Sum
Entries 27
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

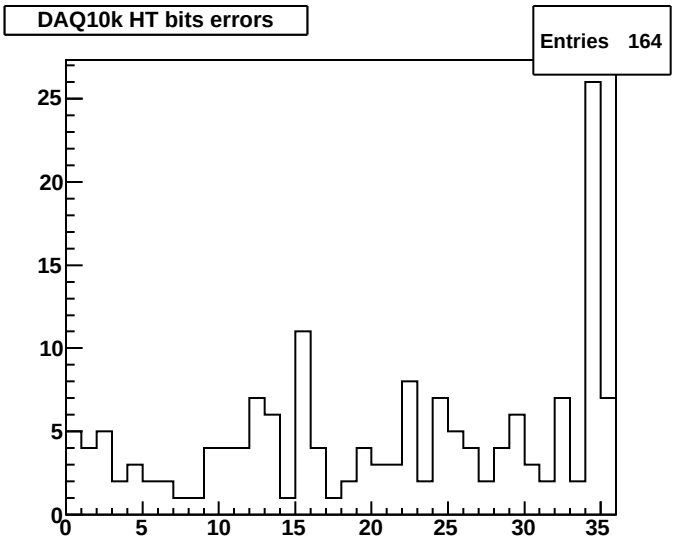

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3999992
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

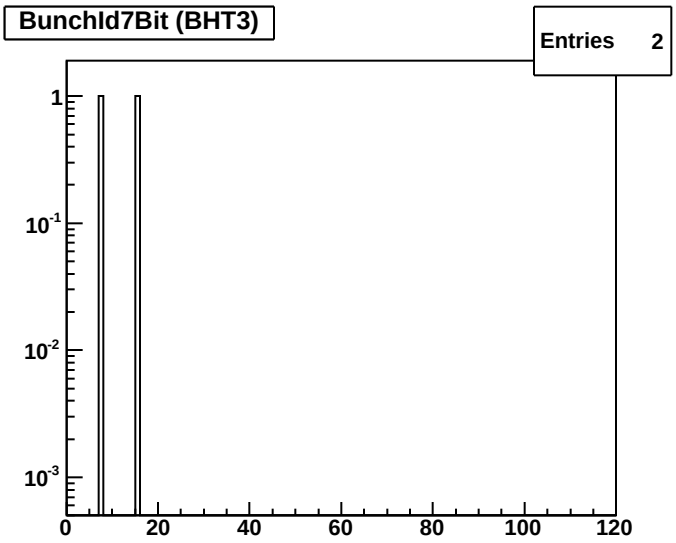

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

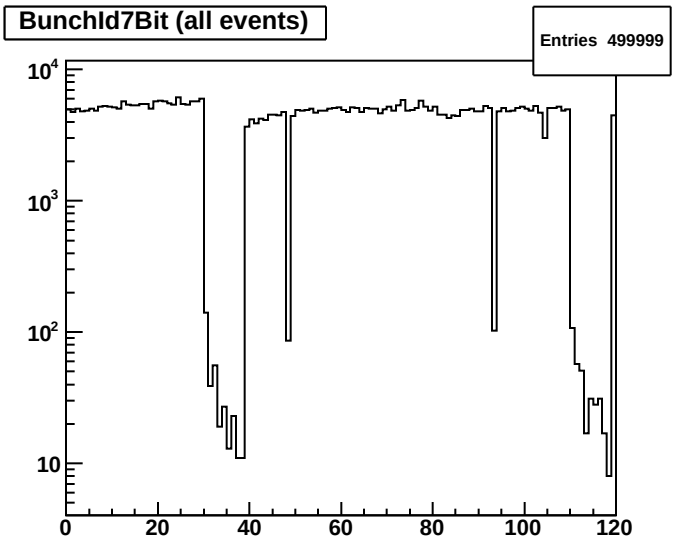

EMC L2 Input - HT23 bits
Entries 3999992
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

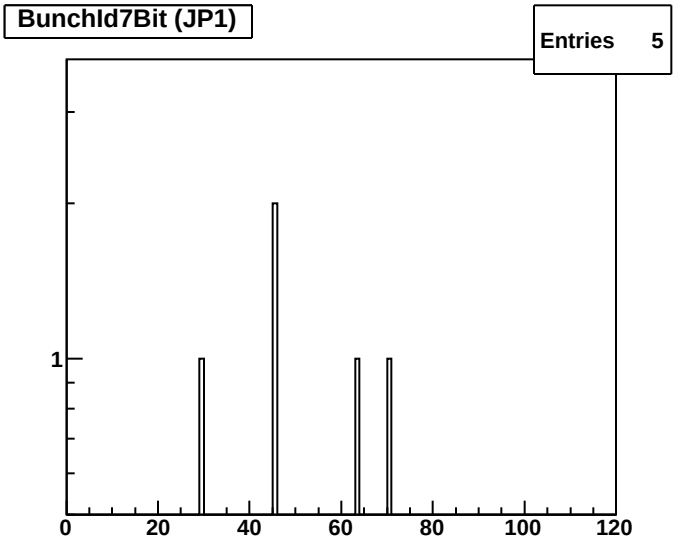

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

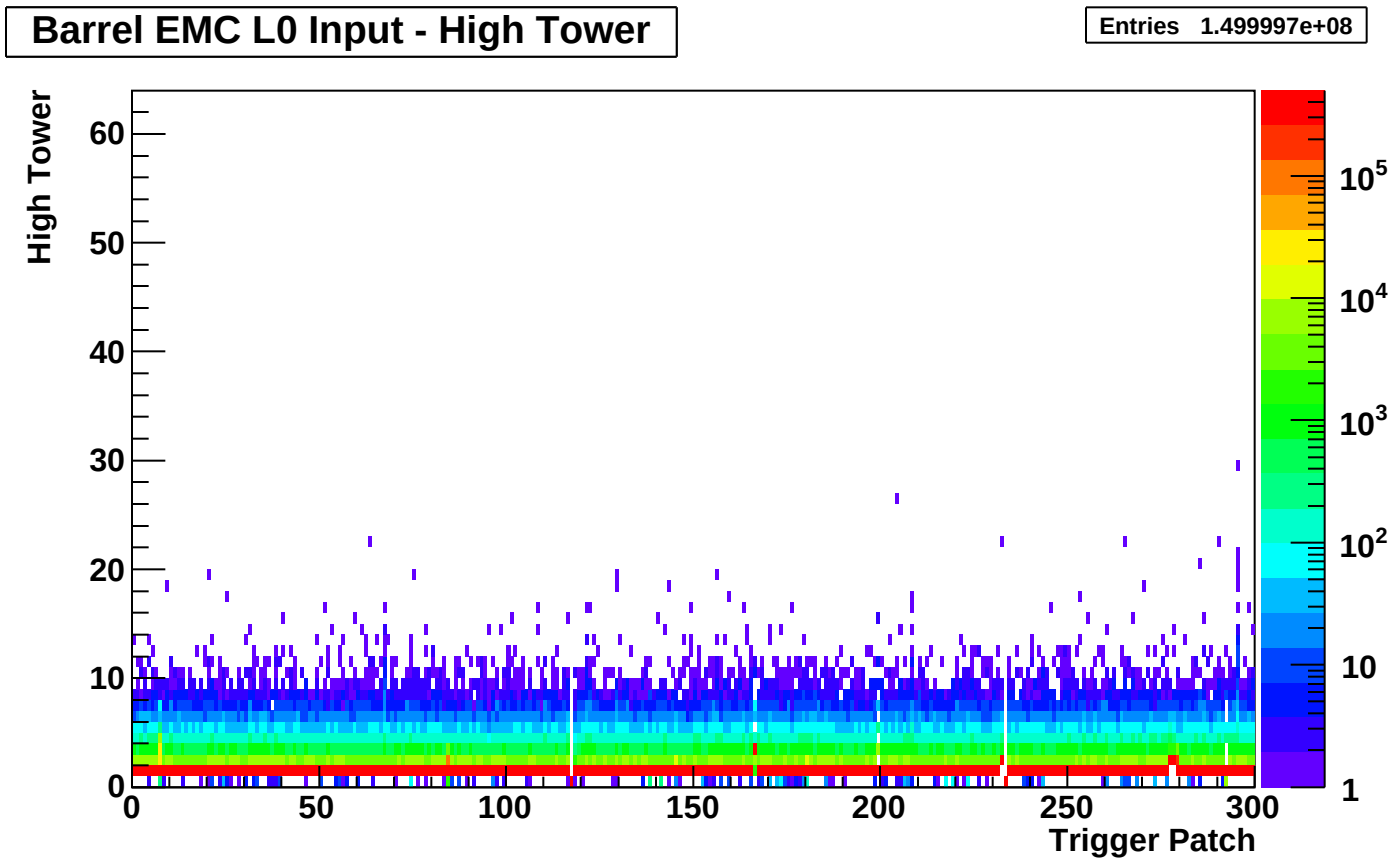

DAQ10k HT bits
Entries 0

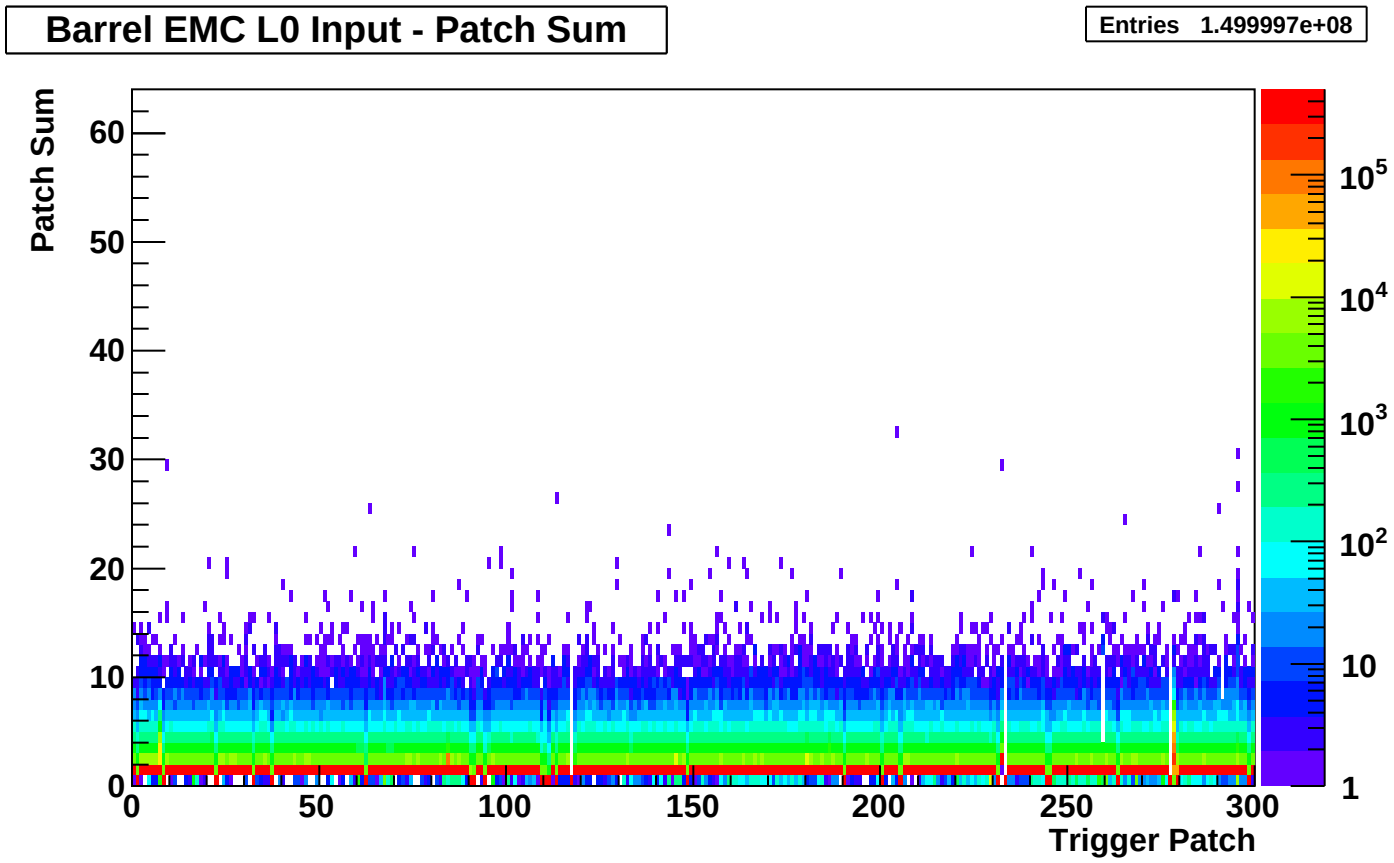

DAQ10k HT bits errors
Entries 164

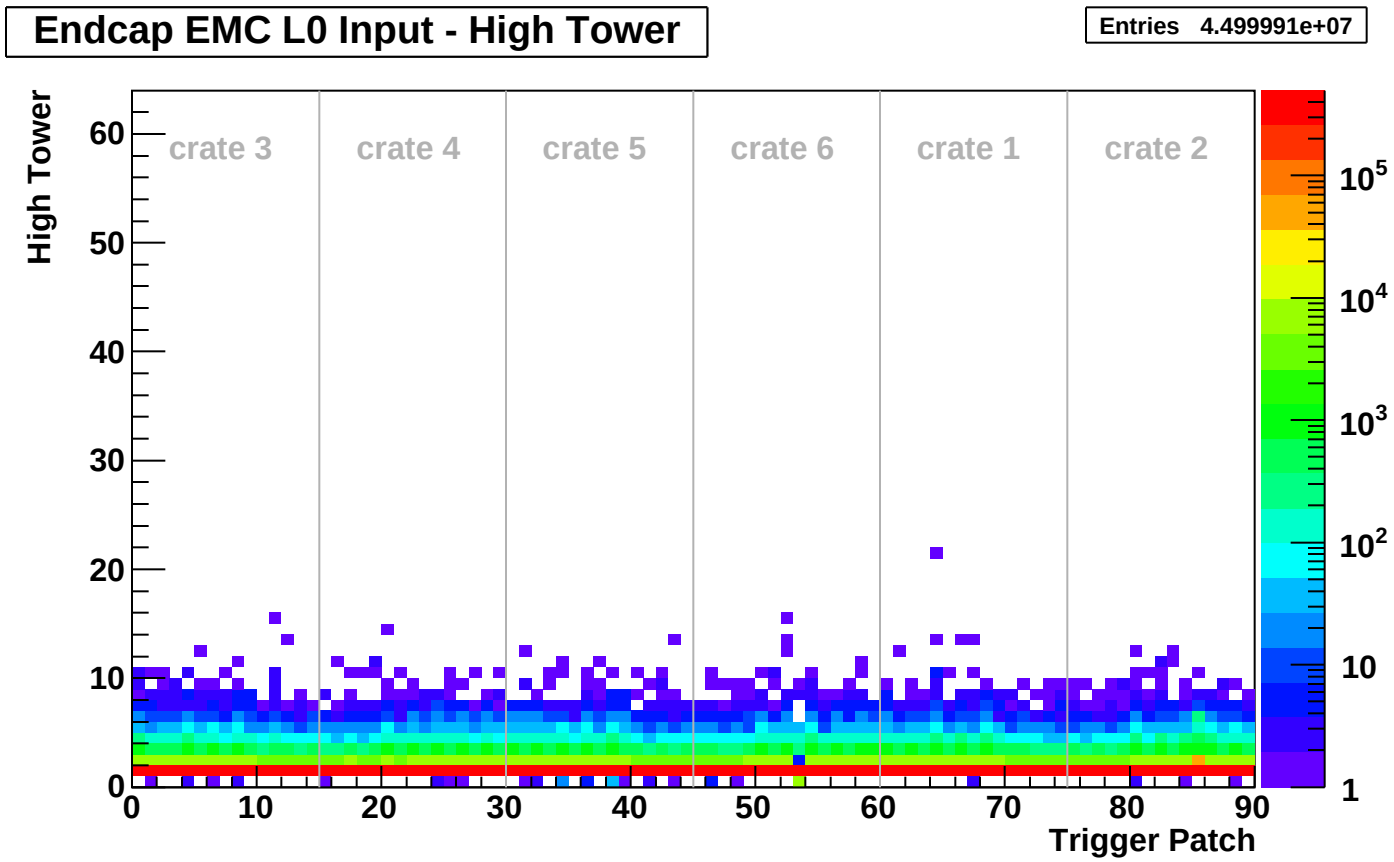

BunchId7Bit (BHT3)
Entries 2

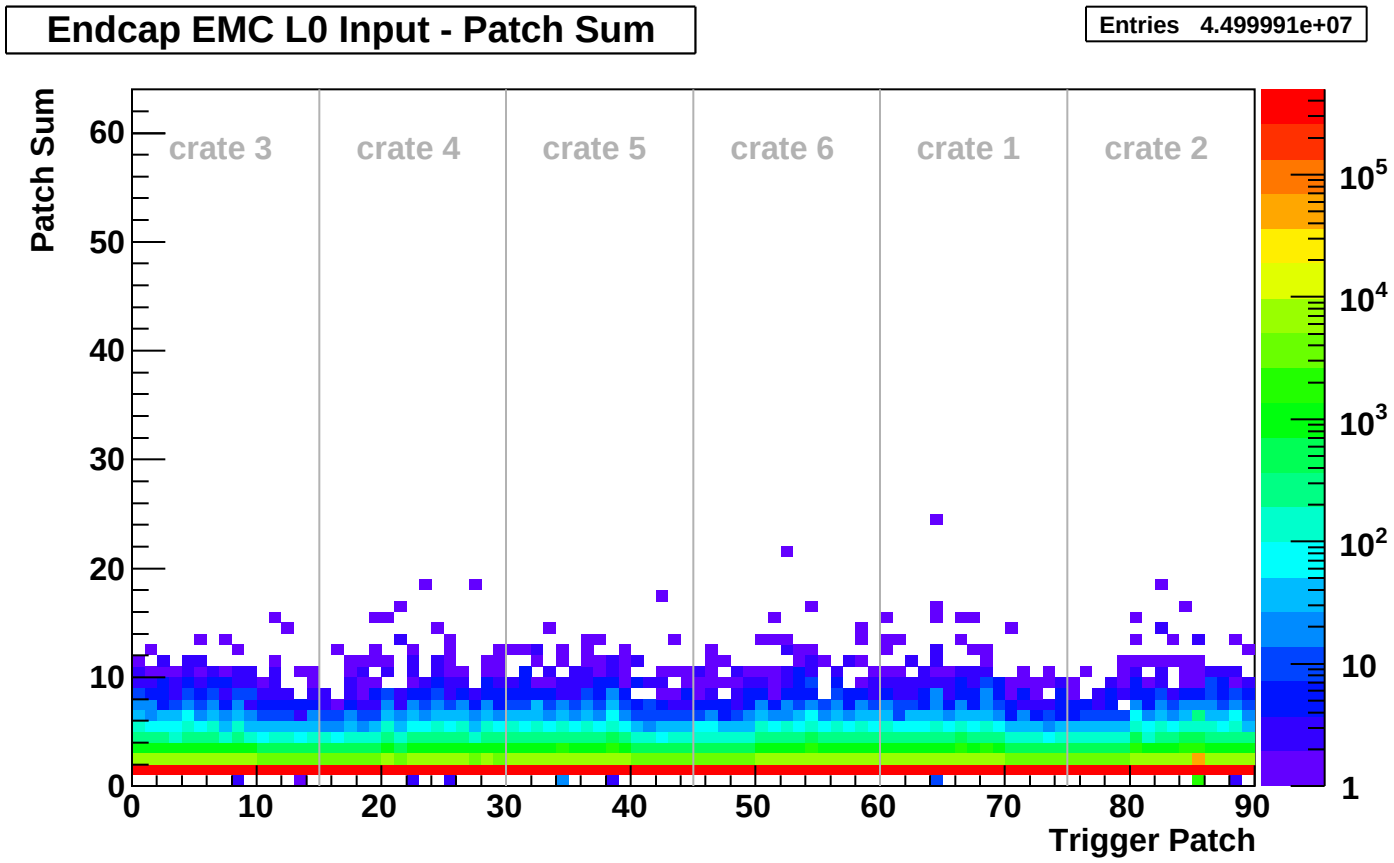

BunchId7Bit (all events)
Entries 499999

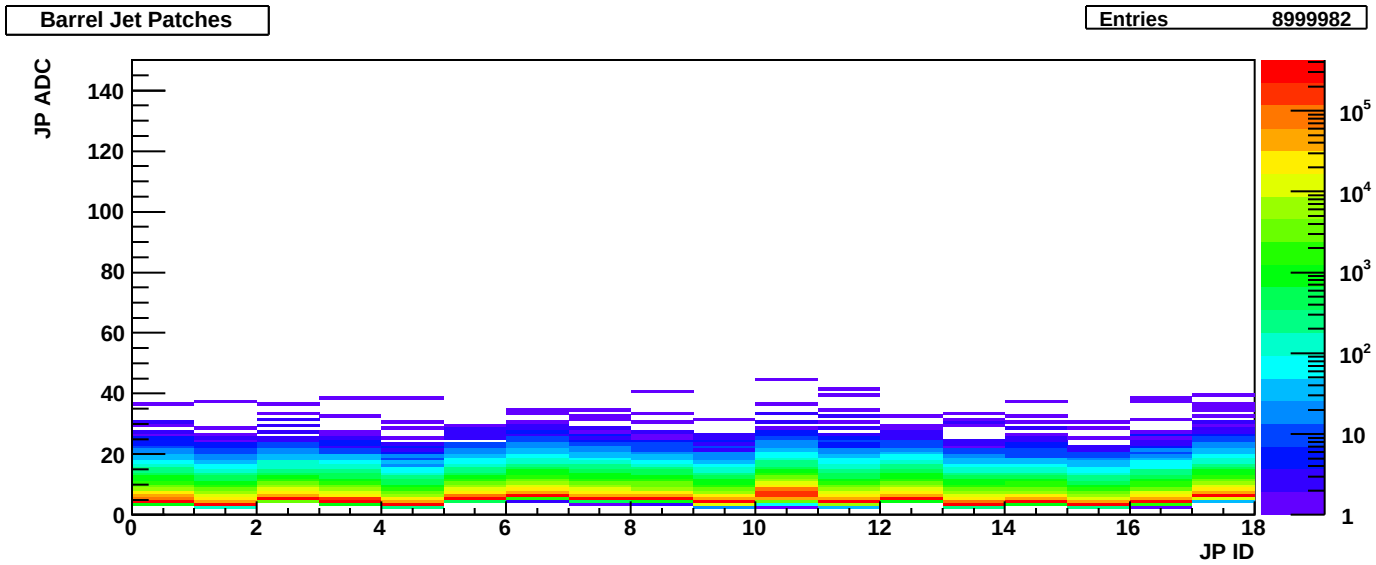

BunchId7Bit (JP1)
Entries 5

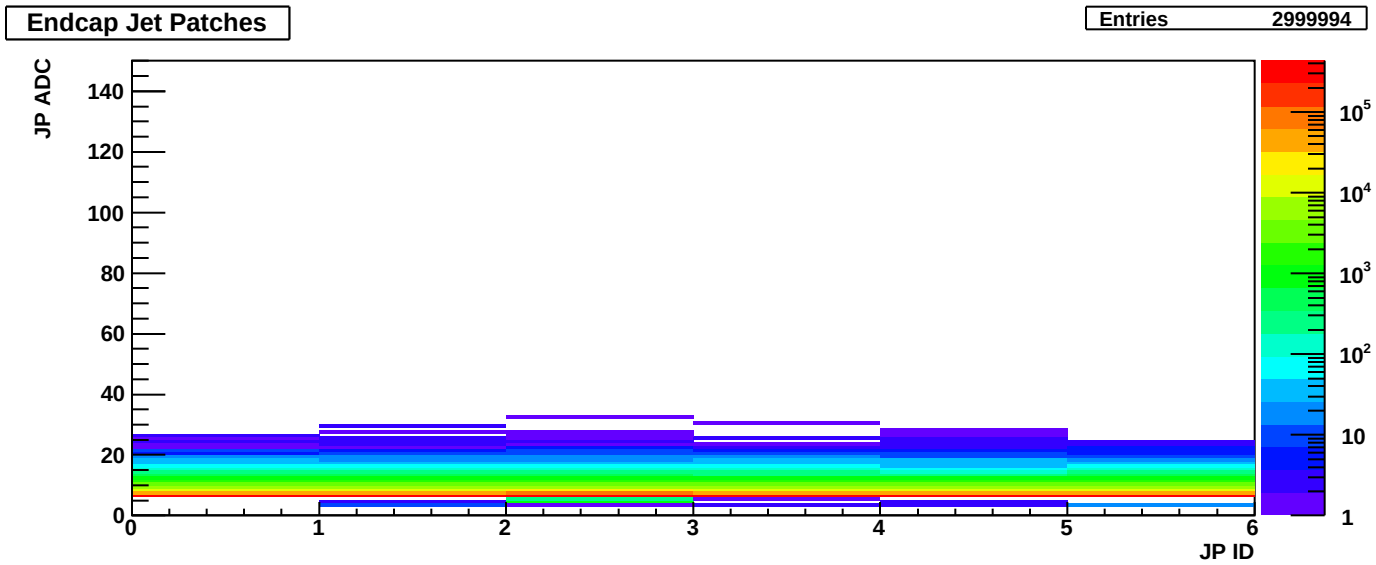

Barrel EMC L0 Input - High Tower
Entries 1.499997e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

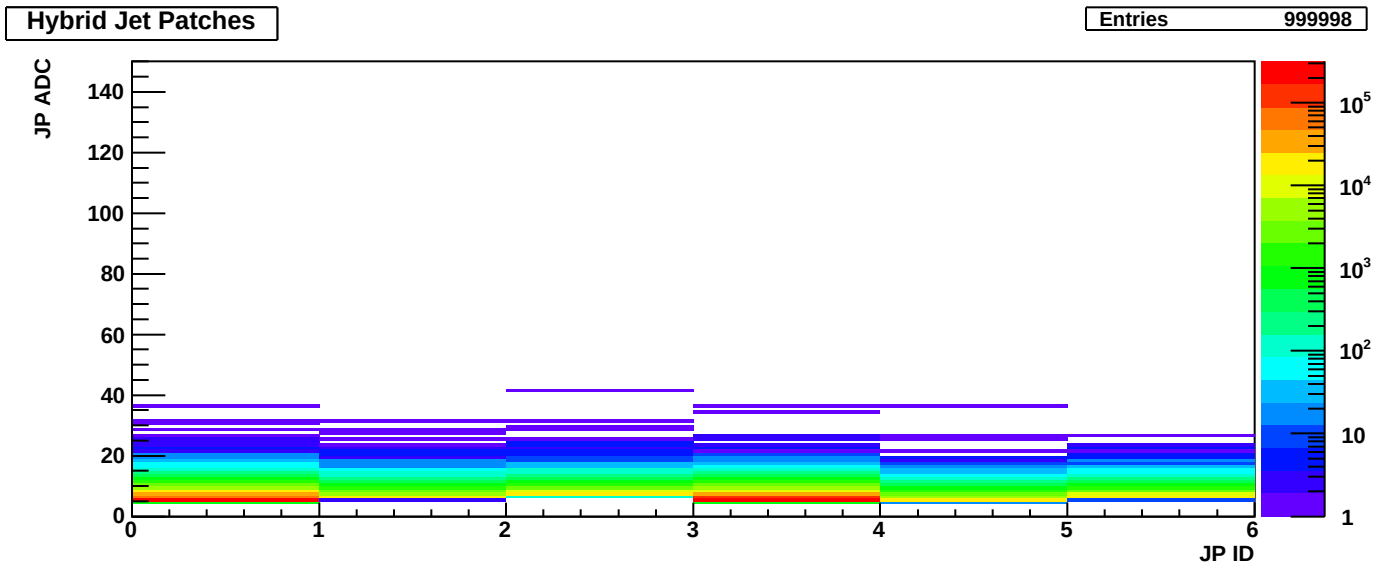

Barrel EMC L0 Input - Patch Sum
Entries 1.499997e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

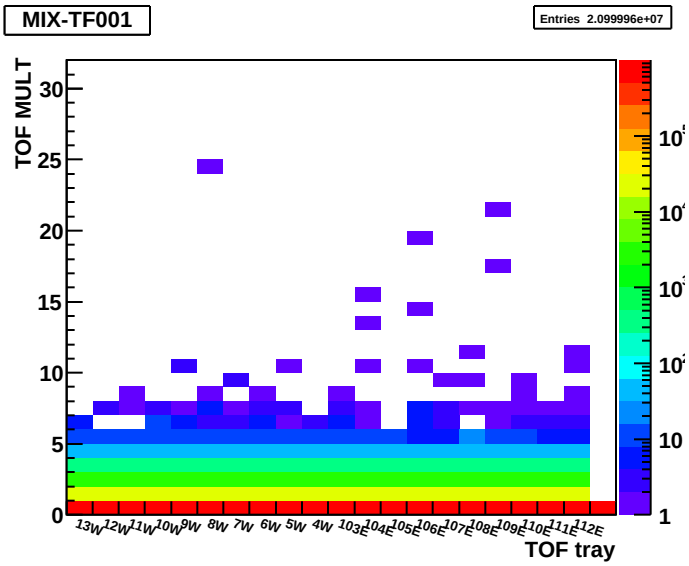

Endcap EMC L0 Input - High Tower
Entries 4.499991e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

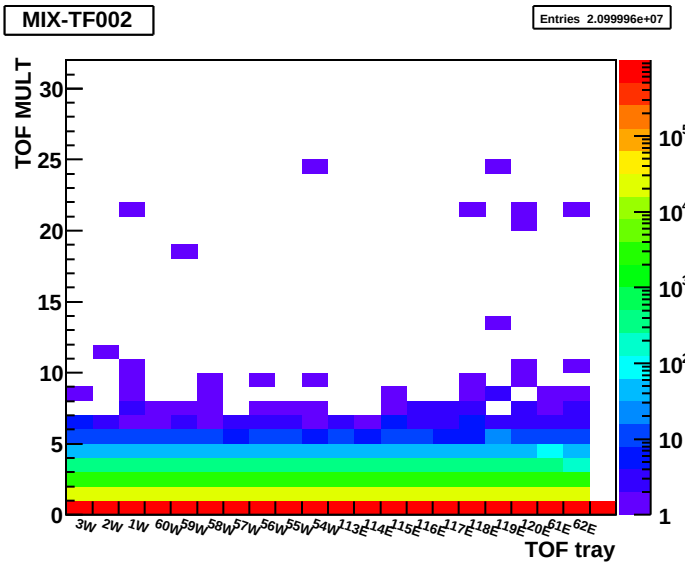

Endcap EMC L0 Input - Patch Sum
Entries 4.499991e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

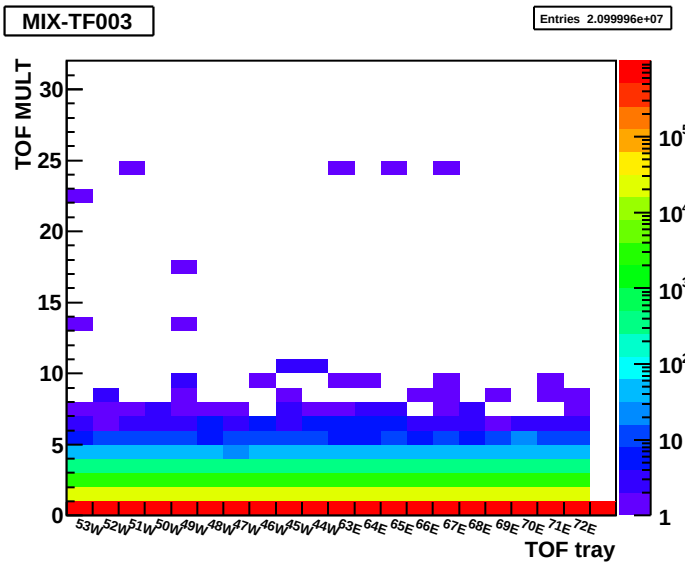

Barrel Jet Patches
Entries 8999982
JP ADC
JP ID

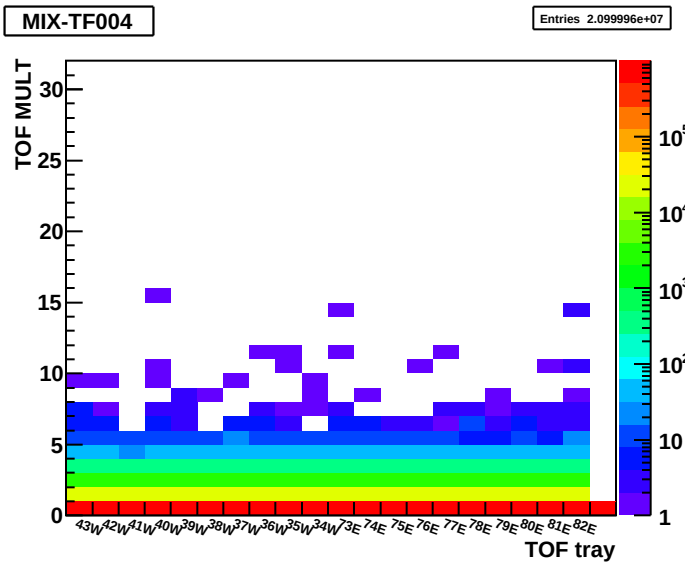

Endcap Jet Patches
Entries 2999994
JP ADC
JP ID

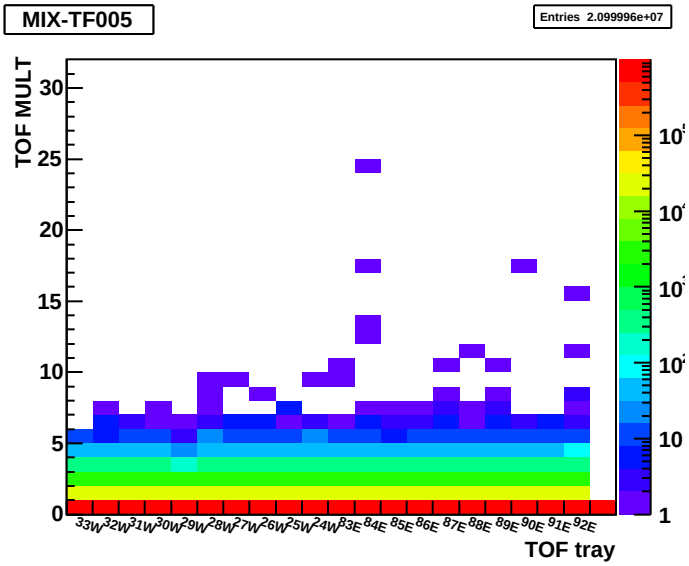

Hybrid Jet Patches
Entries 999998
JP ADC
JP ID

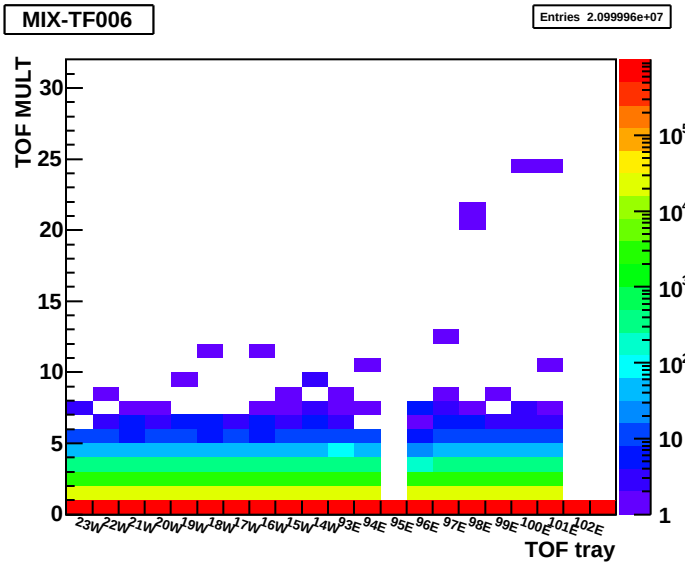

MIX-TF001
Entries 2.099996e+07
TOF MULT
TOF tray

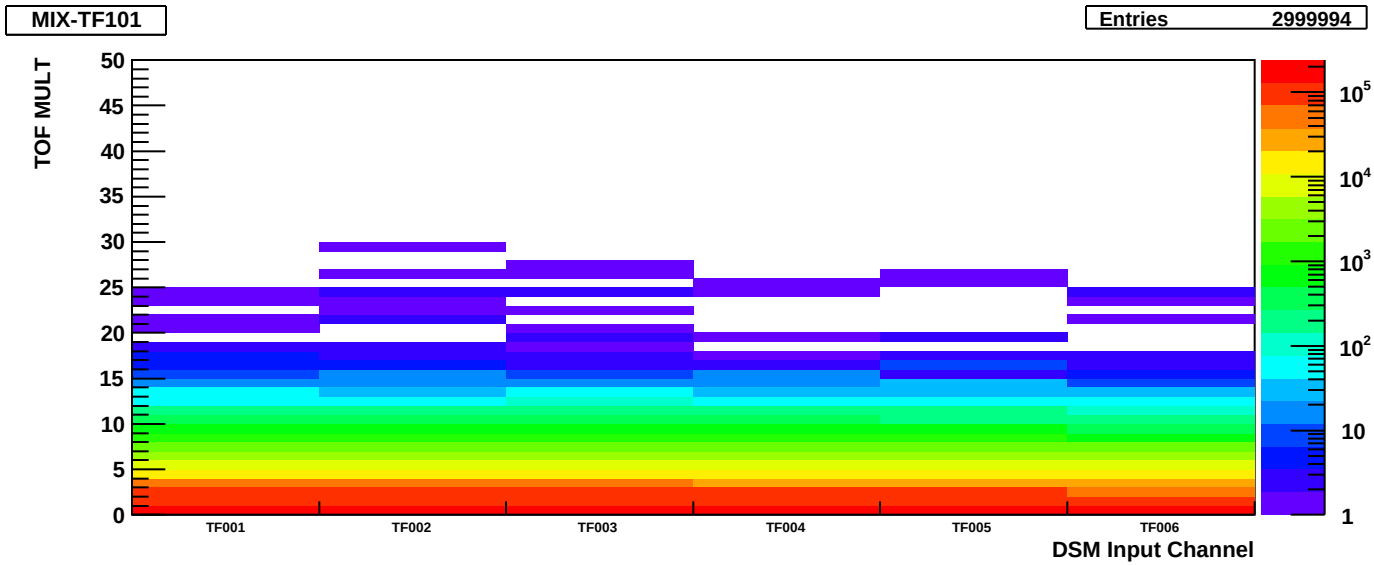

MIX-TF002
Entries 2.099996e+07
TOF MULT
TOF tray

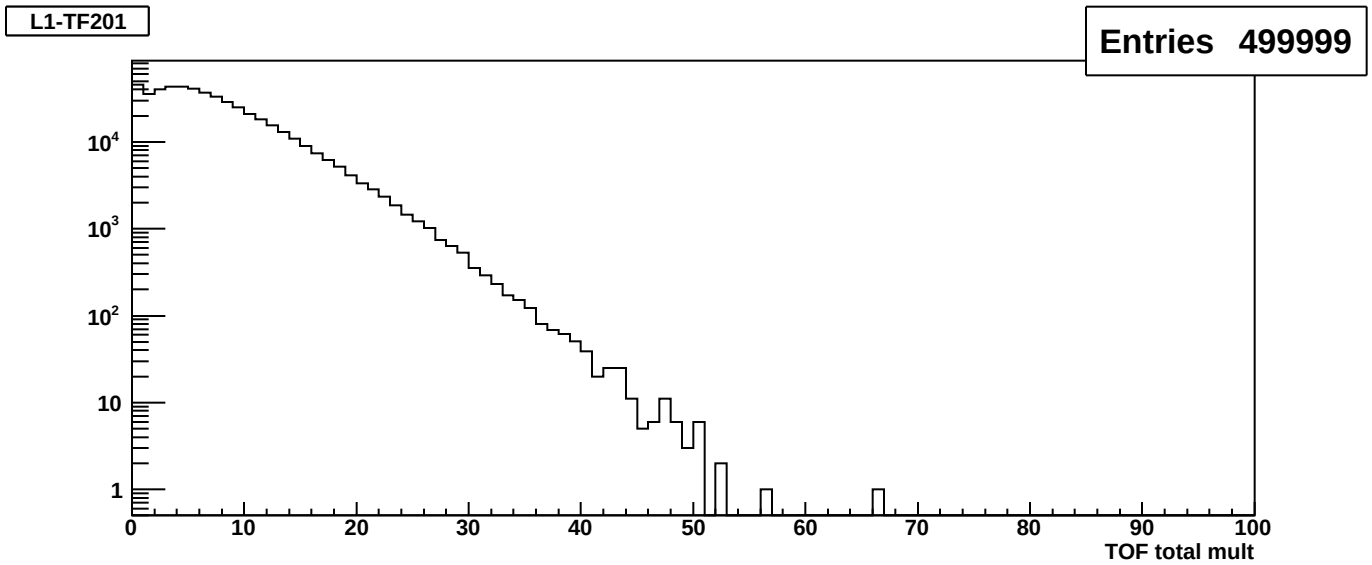

MIX-TF003
Entries 2.099996e+07
TOF MULT
TOF tray

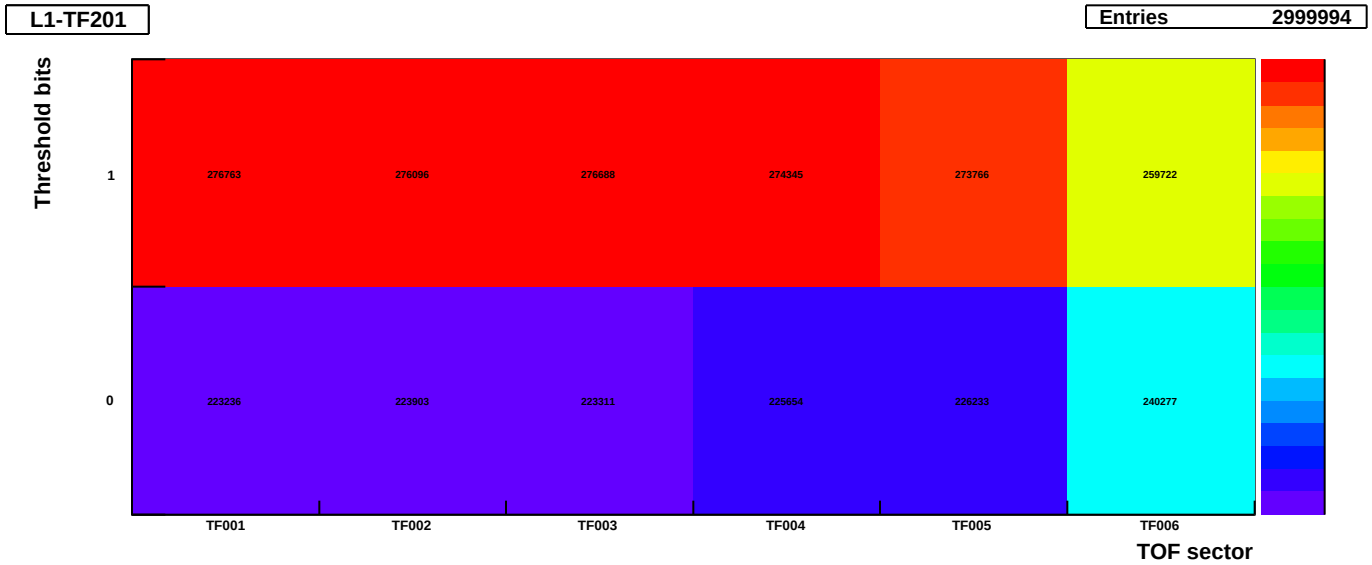

MIX-TF004
Entries 2.099996e+07
TOF MULT
TOF tray

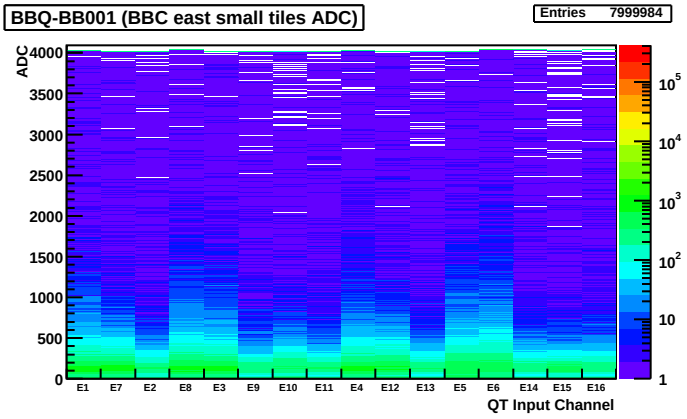

MIX-TF005
Entries 2.099996e+07
TOF MULT
TOF tray

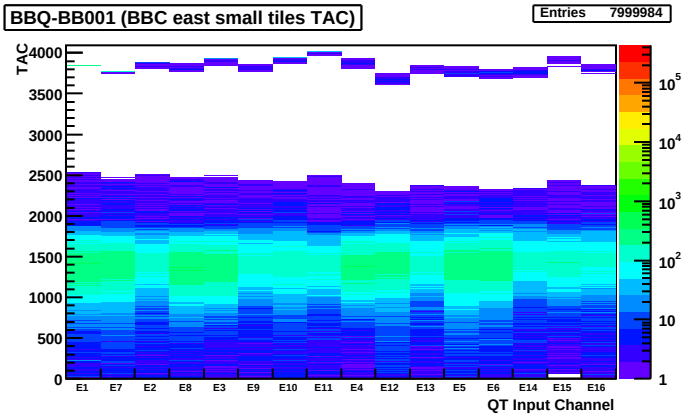

MIX-TF006
Entries 2.099996e+07
TOF MULT
TOF tray

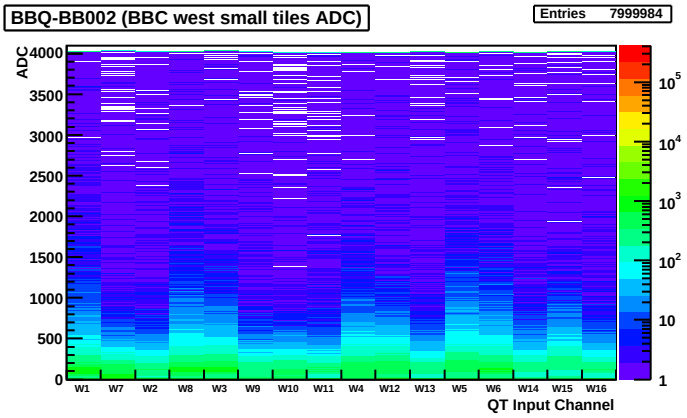

MIX-TF101
Entries 2999994
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

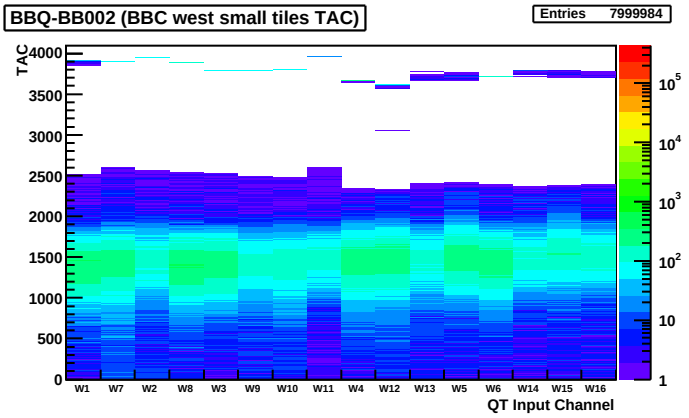

L1-TF201
Entries 499999
TOF total mult

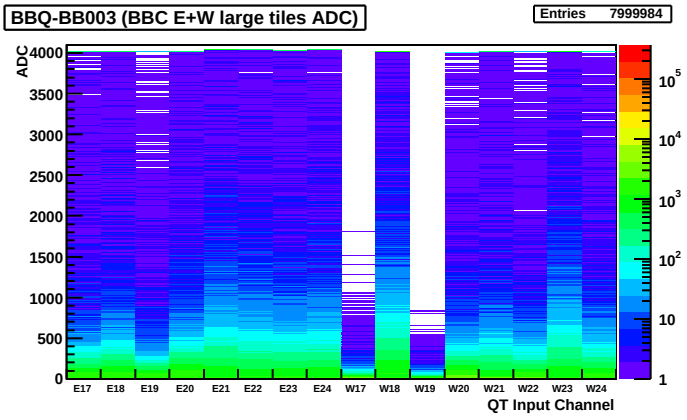

L1-TF201
Entries 2999994
Threshold bits
276763
276096
276688
274345
273766
259722
223236
223903
223311
225654
226233
240277
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

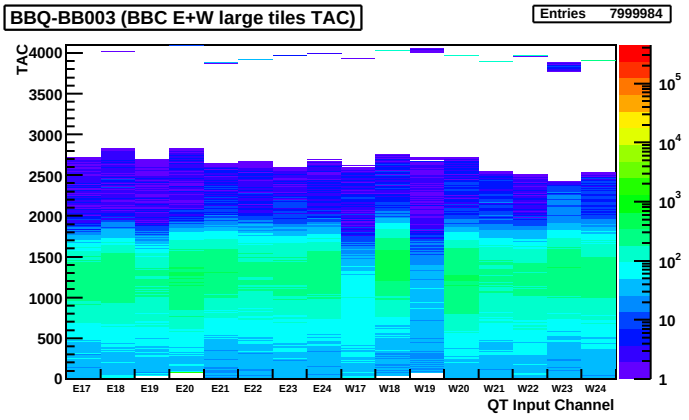

BBQ-BB001 (BBC east small tiles ADC)
Entries 7999984
ADC
QT Input Channel

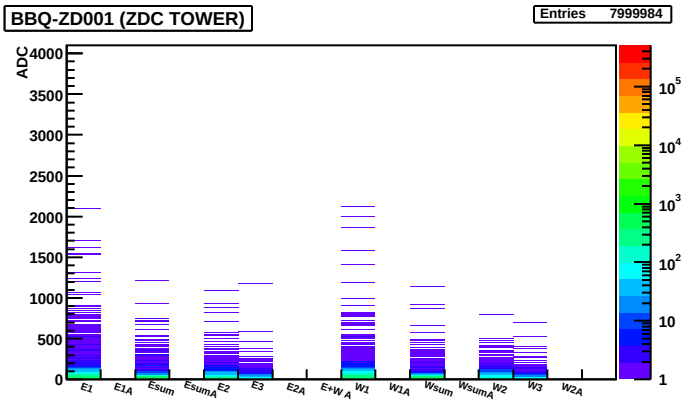

BBQ-BB001 (BBC east small tiles TAC)
Entries 7999984
TAC
QT Input Channel

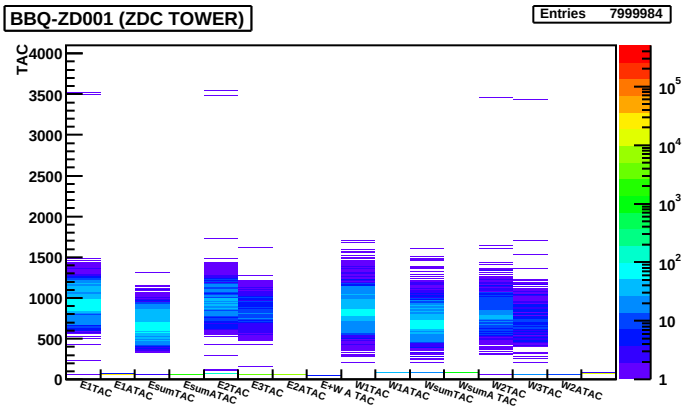

BBQ-BB002 (BBC west small tiles ADC)
Entries 7999984
ADC
QT Input Channel

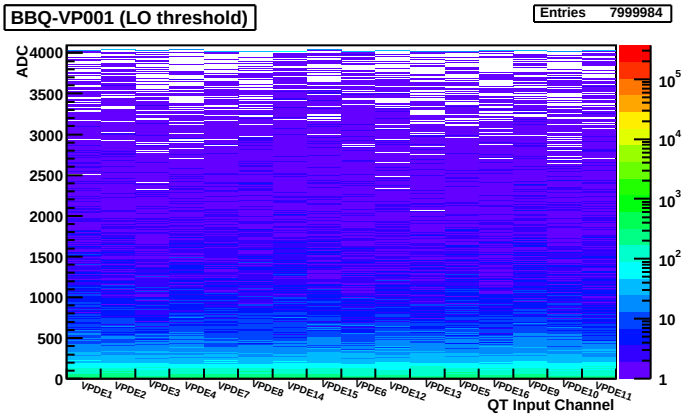

BBQ-BB002 (BBC west small tiles TAC)
Entries 7999984
TAC
QT Input Channel

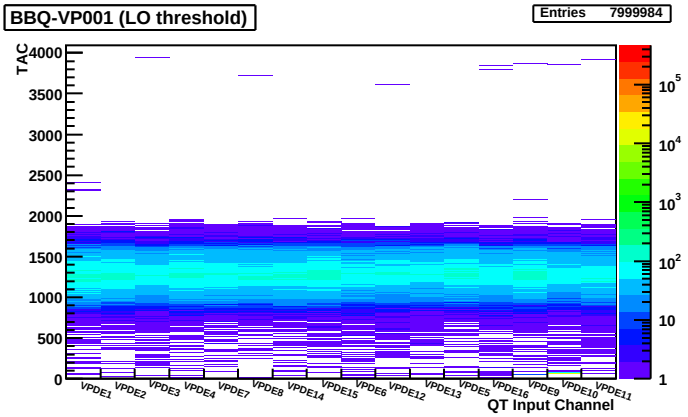

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7999984
ADC
QT Input Channel

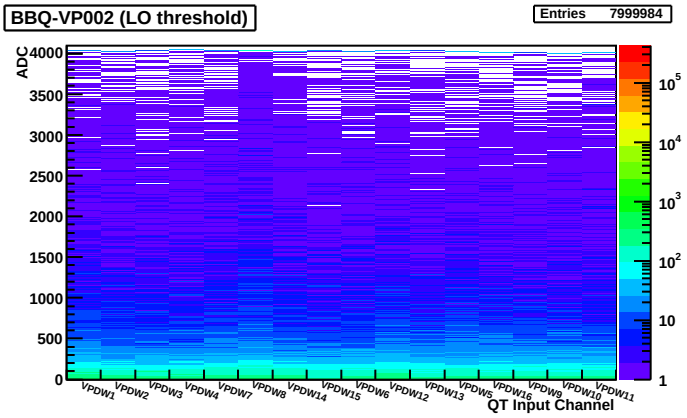

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7999984
TAC
QT Input Channel

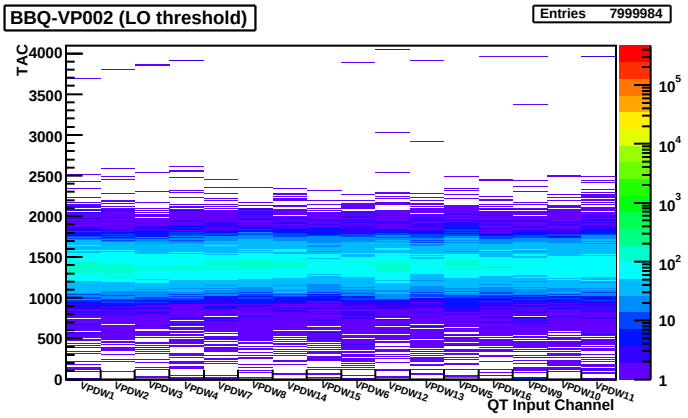

BBQ-ZD001 (ZDC TOWER)
Entries 7999984
ADC

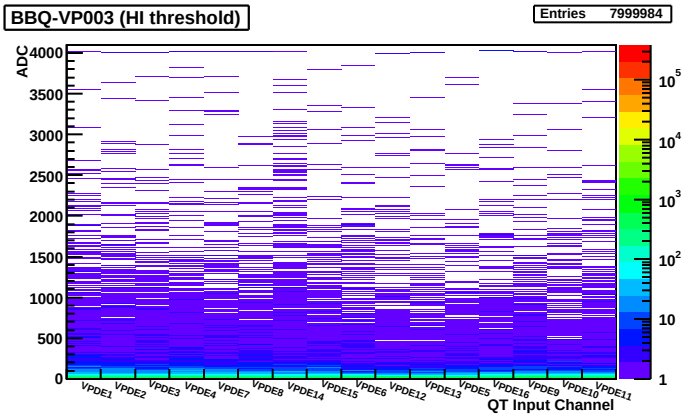

BBQ-ZD001 (ZDC TOWER)
Entries 7999984
TAC

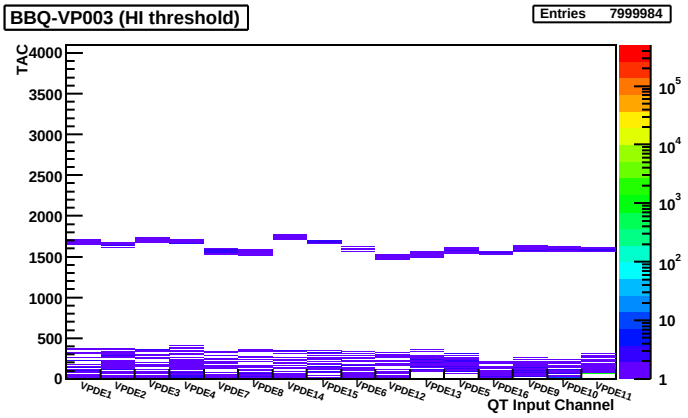

BBQ-VP001 (LO threshold)
Entries 7999984
ADC
QT Input Channel

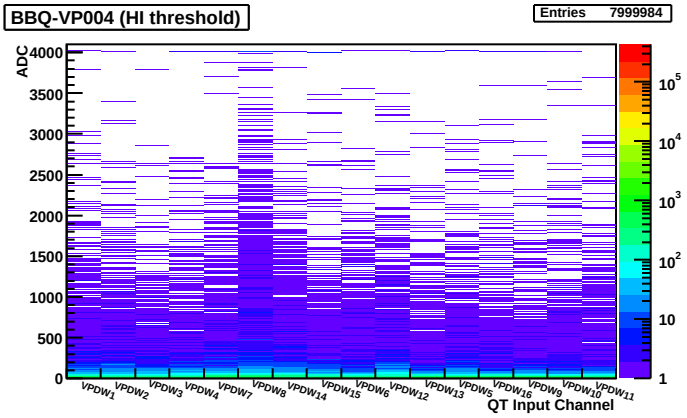

BBQ-VP001 (LO threshold)
Entries 7999984
TAC
QT Input Channel

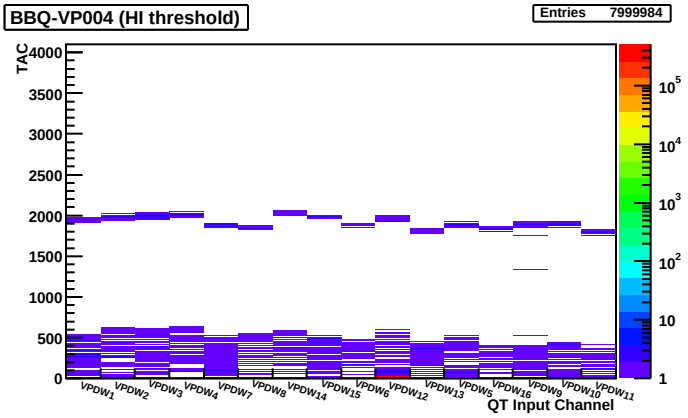

BBQ-VP002 (LO threshold)
Entries 7999984
ADC
QT Input Channel

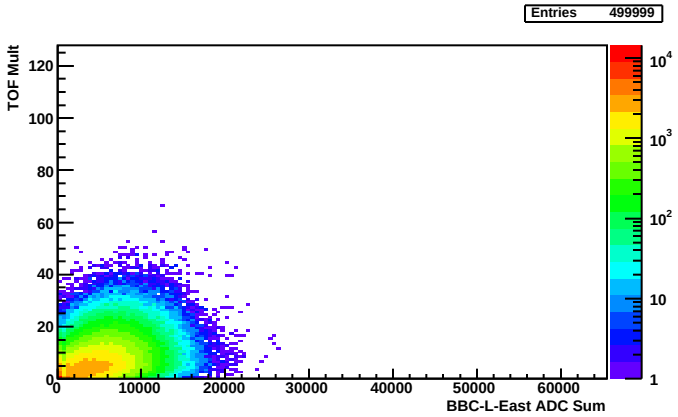

BBQ-VP002 (LO threshold)
Entries 7999984
TAC
QT Input Channel

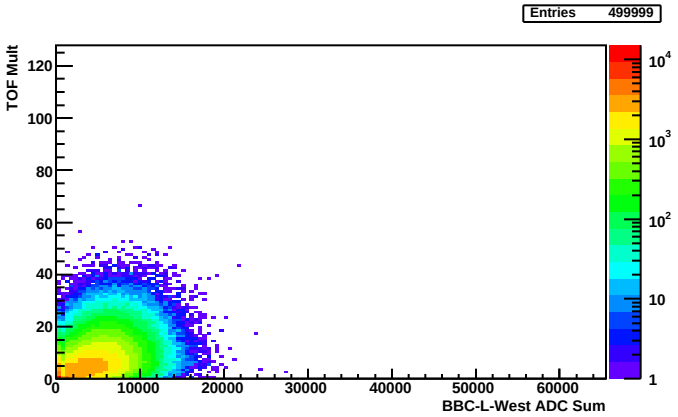

BBQ-VP003 (HI threshold)
Entries 7999984
ADC
QT Input Channel

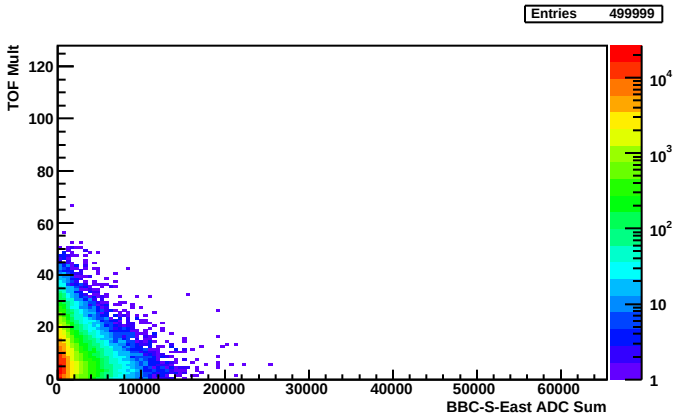

BBQ-VP003 (HI threshold)
Entries 7999984
TAC
QT Input Channel

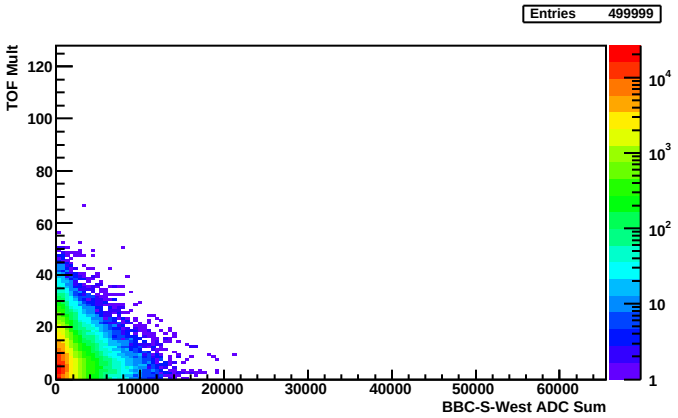

BBQ-VP004 (HI threshold)
Entries 7999984
ADC
QT Input Channel

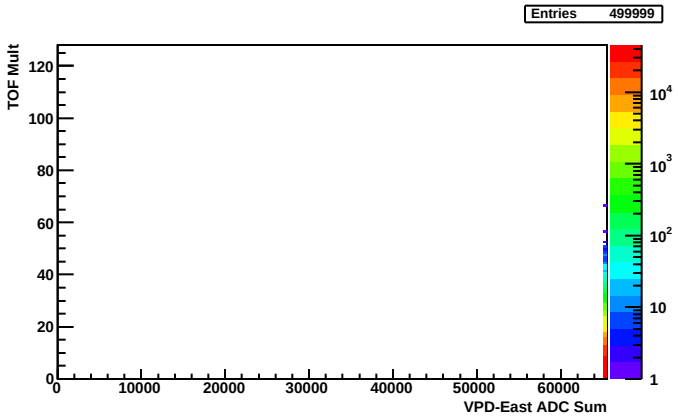

BBQ-VP004 (HI threshold)
Entries 7999984
TAC
QT Input Channel

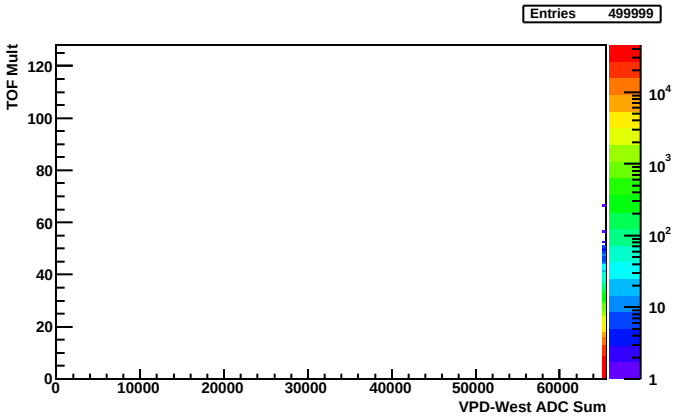

Entries 499999
TOF Mult
BBC-L-East ADC Sum

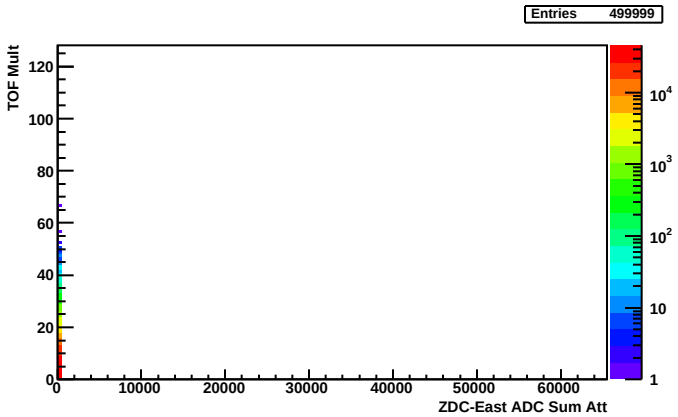

Entries 499999
TOF Mult
BBC-L-West ADC Sum

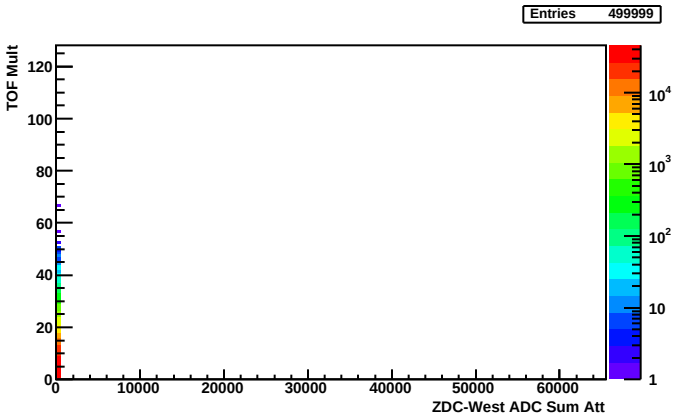

Entries 499999
TOF Mult
BBC-S-East ADC Sum

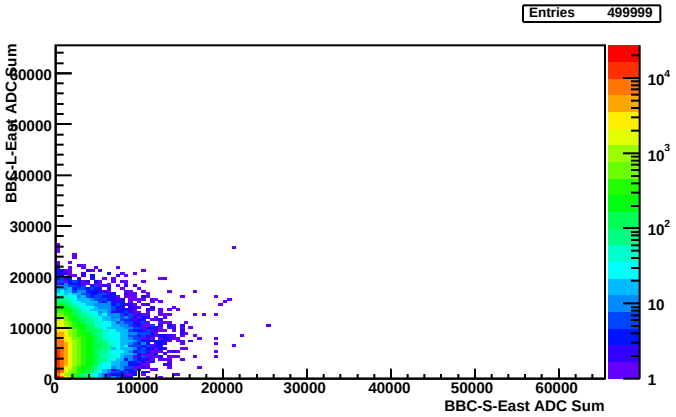

Entries 499999
TOF Mult
BBC-S-West ADC Sum

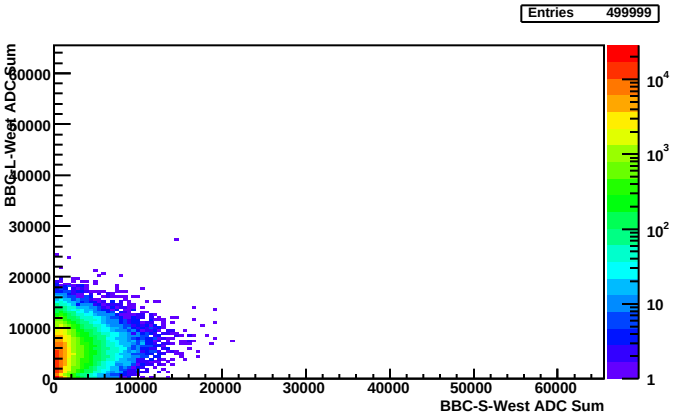

Entries 499999
TOF Mult
VPD-East ADC Sum

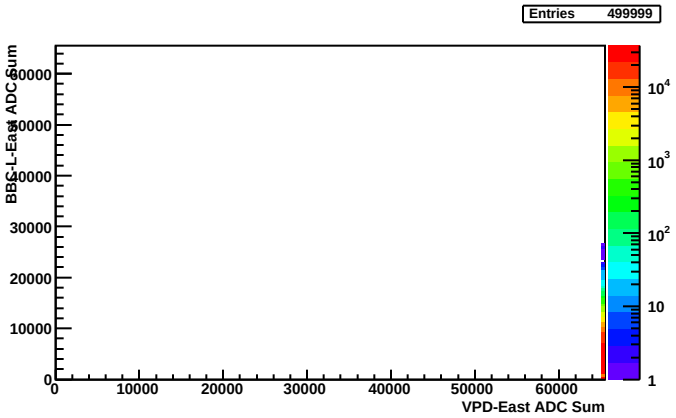

Entries 499999
TOF Mult
VPD-West ADC Sum

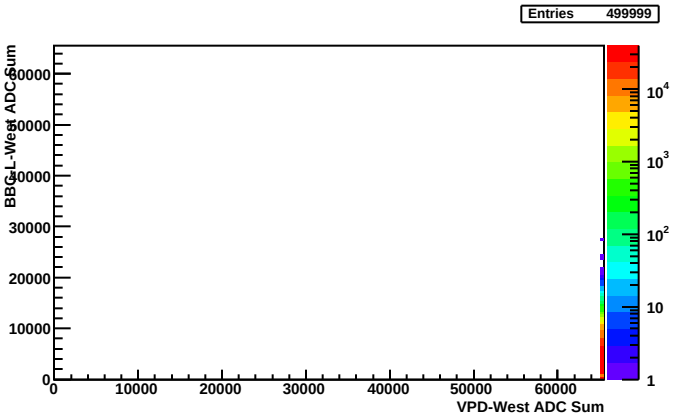

Entries 499999
TOF Mult
ZDC-East ADC Sum Att

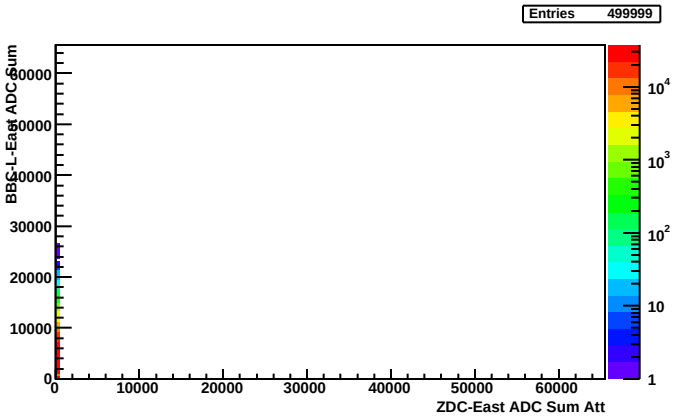

Entries 499999
TOF Mult
ZDC-West ADC Sum Att

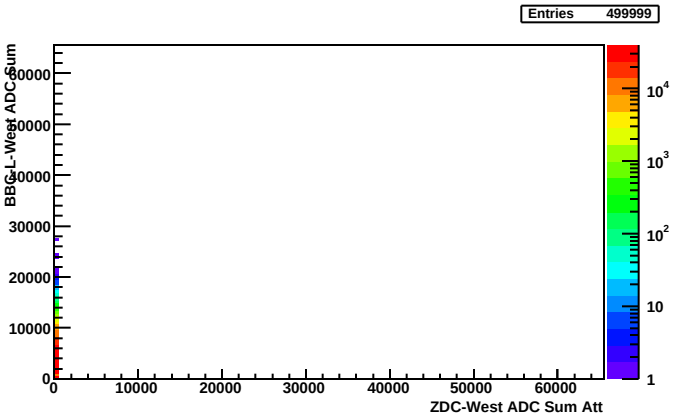

Entries 499999
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 499999
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 499999
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 499999
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 499999
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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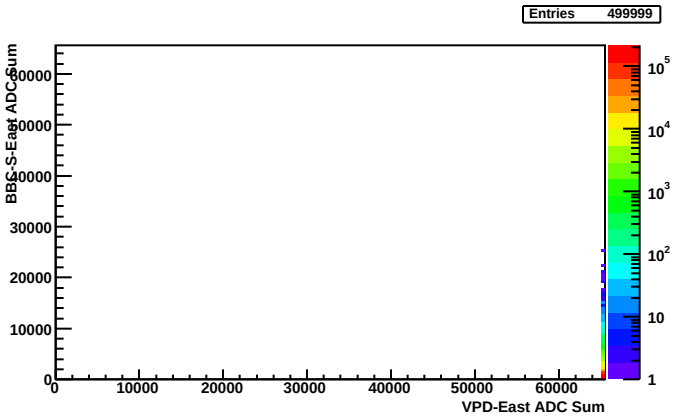
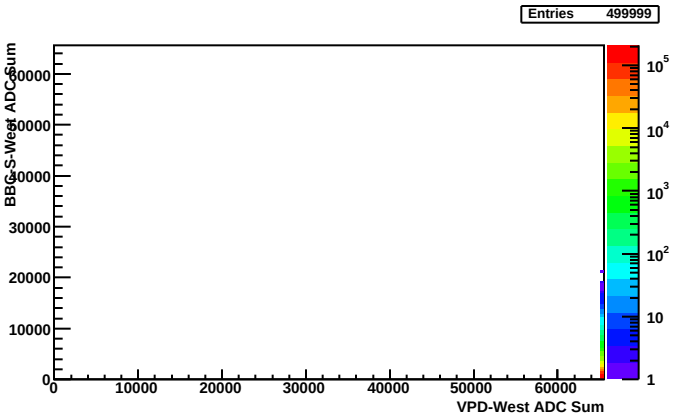
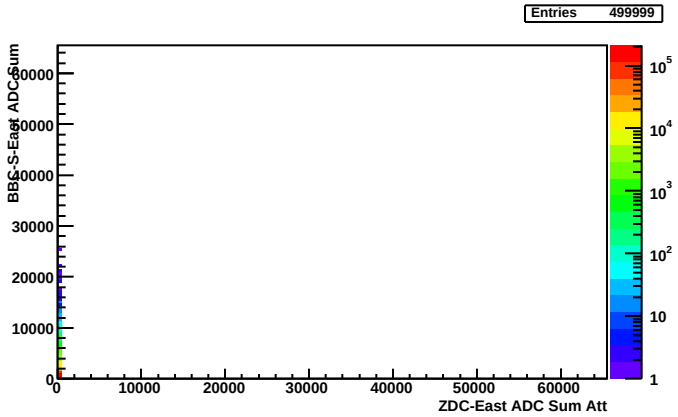
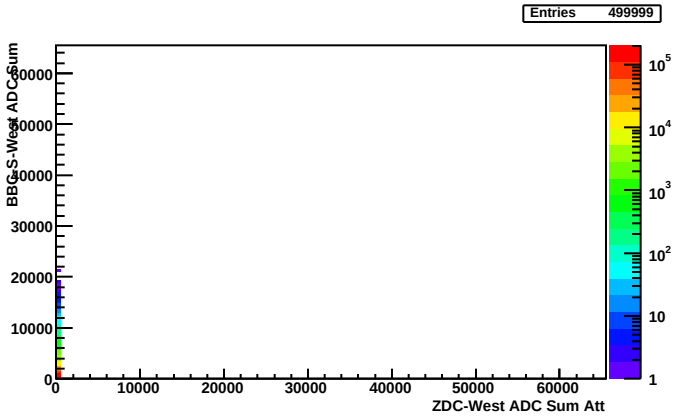
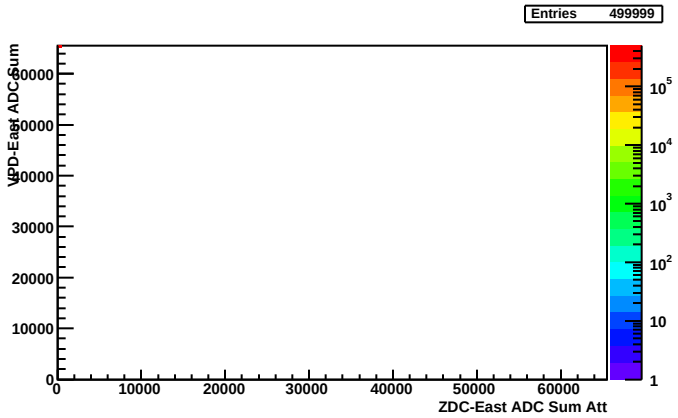
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

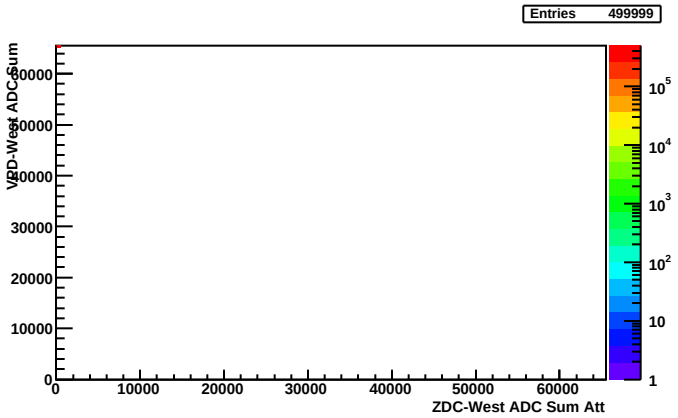

Entries 499999
BBC-S-East ADC Sum
VPD-East ADC Sum

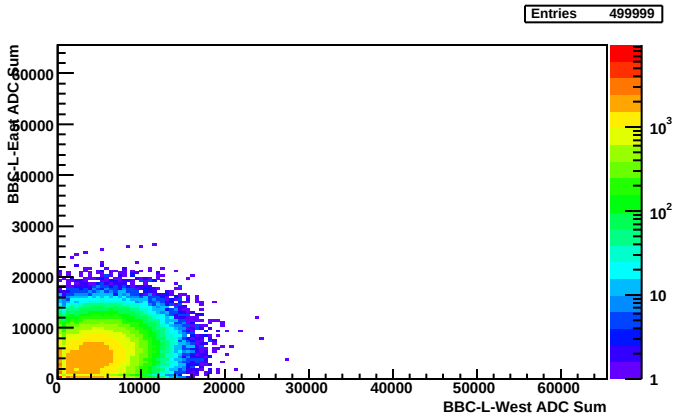

Entries 499999
BBC-S-West ADC Sum
VPD-West ADC Sum

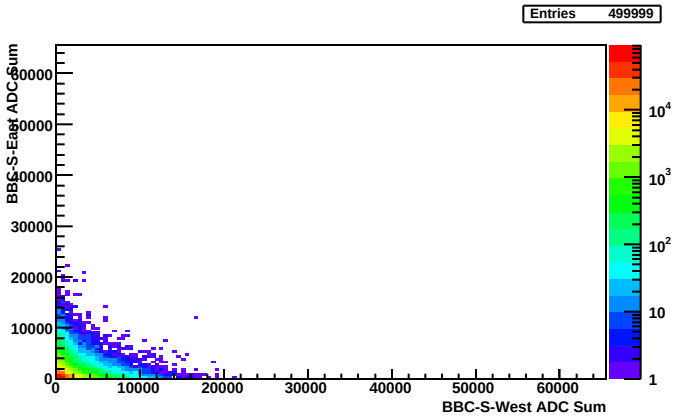

Entries 499999
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

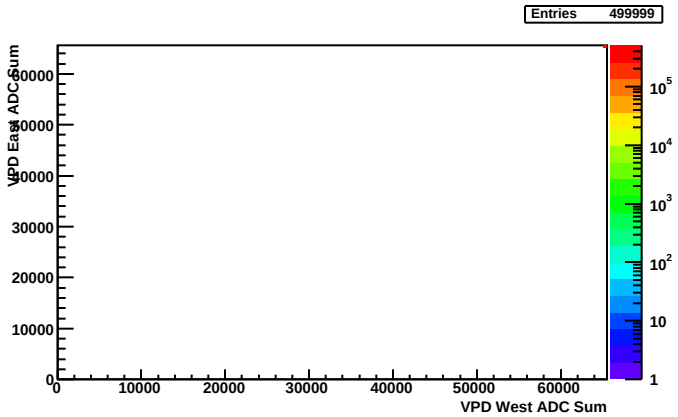

Entries 499999
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

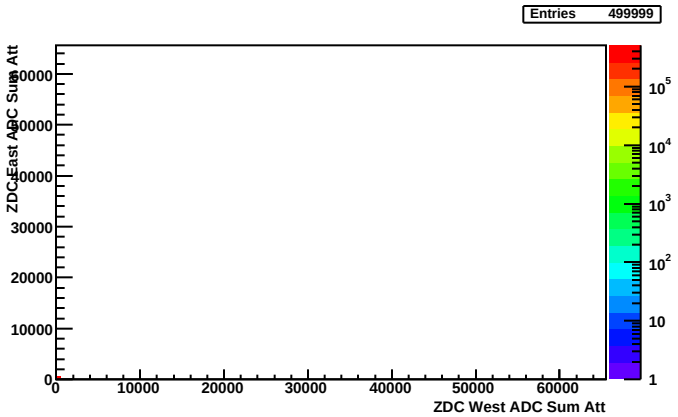

Entries 499999
VPD-East ADC Sum
ZDC-East ADC Sum Att

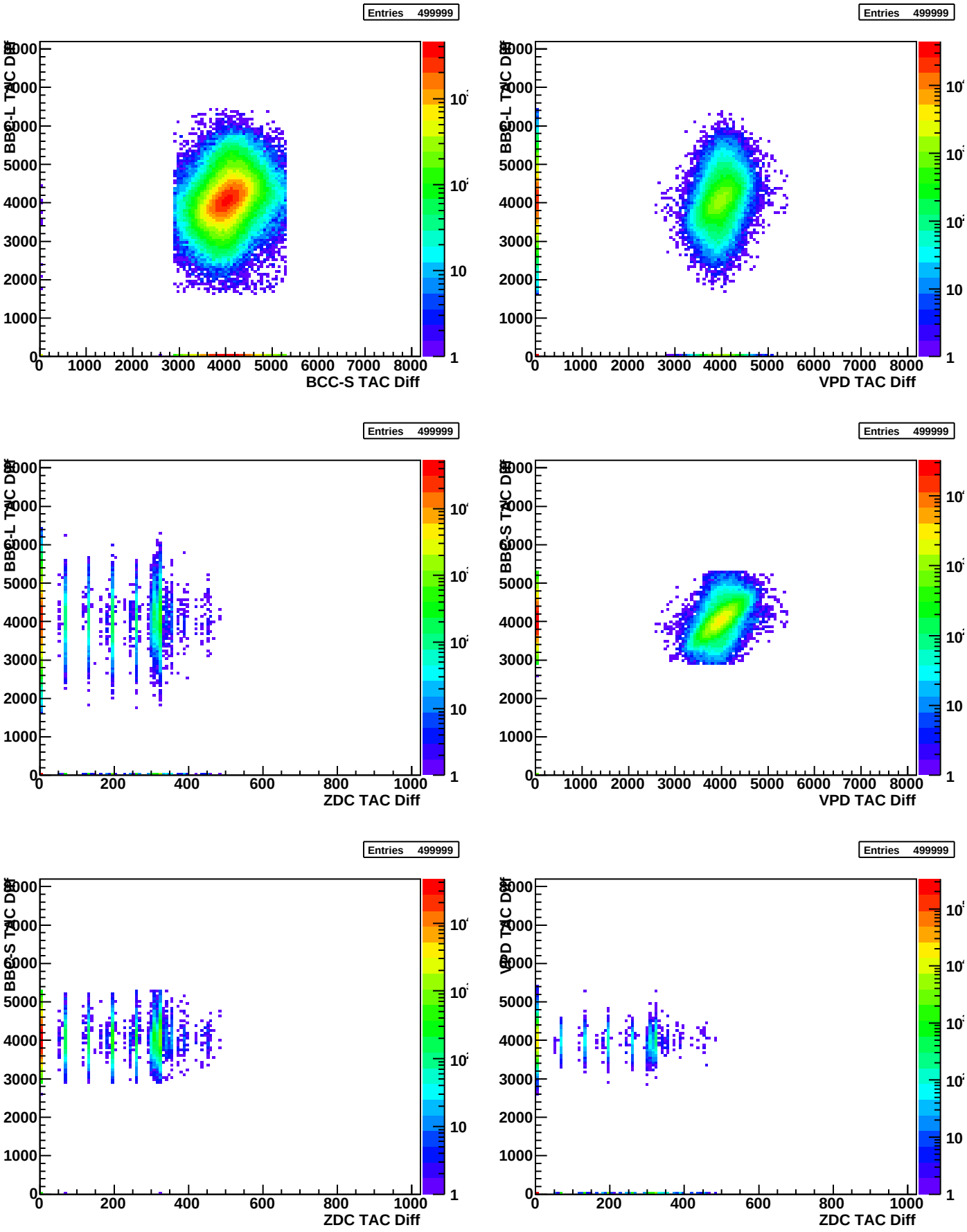

Entries 499999
VPD-West ADC Sum
ZDC-West ADC Sum Att

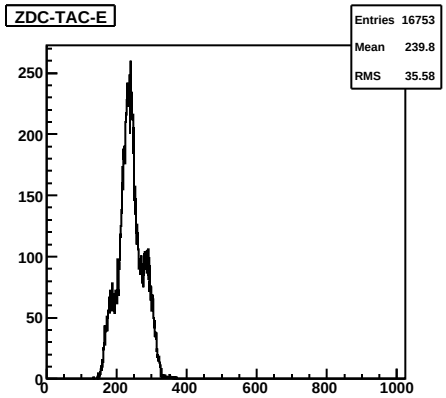

Entries 499999
BBC-L-East ADC Sum
BBC-L-West ADC Sum

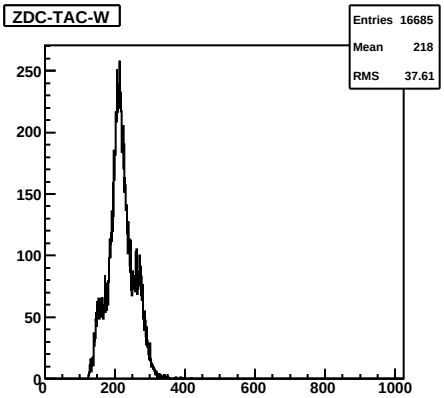

Entries 499999
BBC-S-East ADC Sum
BBC-S-West ADC Sum

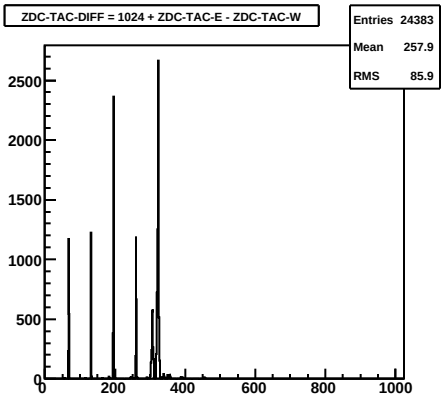

Entries 499999
VPD East ADC Sum
VPD West ADC Sum

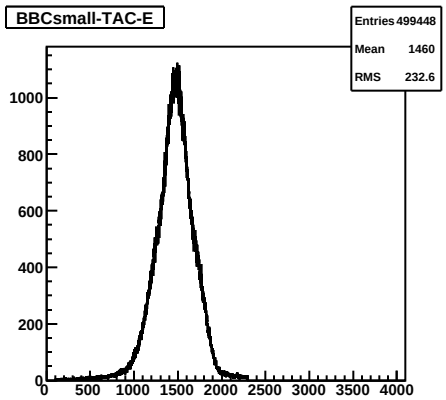

Entries 499999
ZDC East ADC Sum Att
ZDC West ADC Sum Att

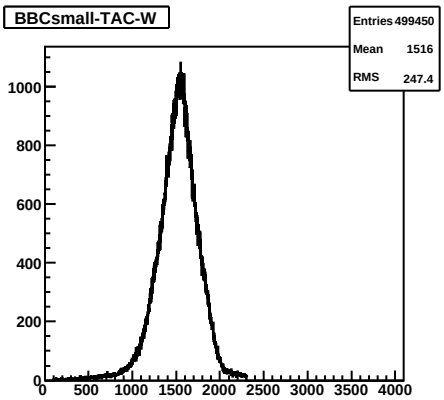

Entries 499999
BBC-L TAC Diff
BCC-S TAC Diff
Entries 499999
BBC-L TAC Diff
VPD TAC Diff
Entries 499999
BBC-L TAC Diff
ZDC TAC Diff
Entries 499999
BBC-S TAC Diff
VPD TAC Diff
Entries 499999
BBC-S TAC Diff
ZDC TAC Diff
Entries 499999
VPD TAC Diff
ZDC TAC Diff

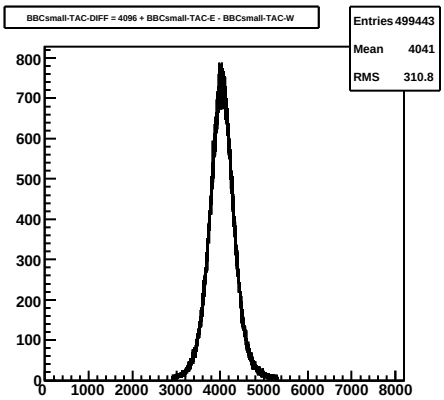

ZDC-TAC-E
Entries 16753
Mean 239.8
RMS 35.58

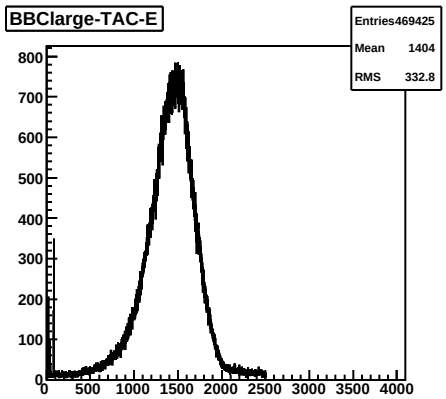

ZDC-TAC-W
Entries 16685
Mean 218
RMS 37.61

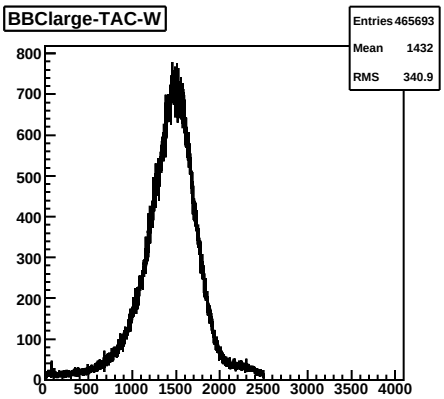

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 24383
Mean 257.9
RMS 85.9

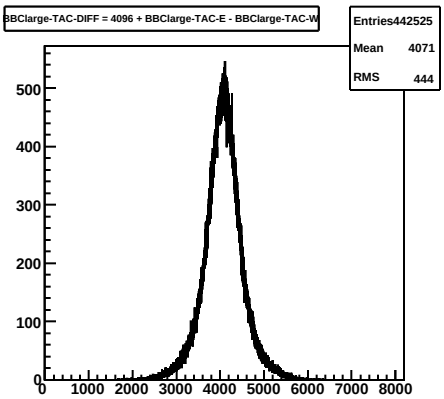

BBCsmall-TAC-E
Entries 499448
Mean 1460
RMS 232.6

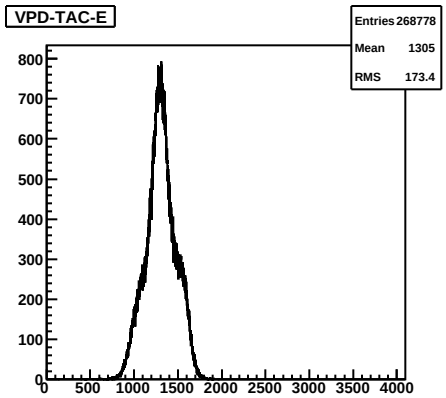

BBCsmall-TAC-W
Entries 499450
Mean 1516
RMS 247.4

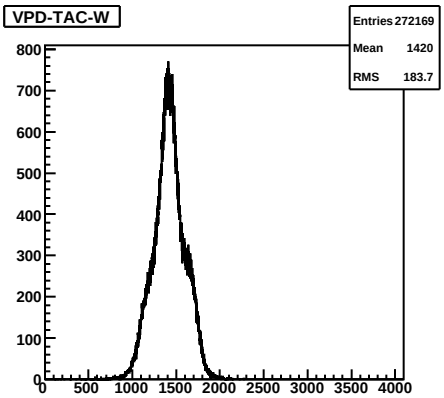

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 499443
Mean 4041
RMS 310.8

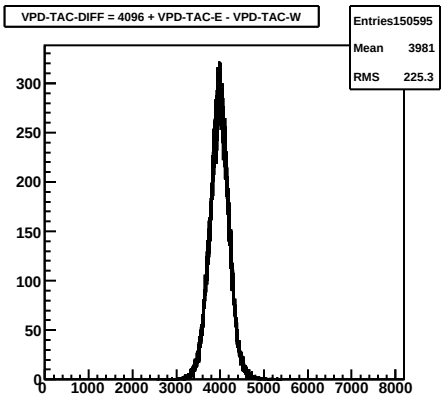

BBClarge-TAC-E
Entries 469425
Mean 1404
RMS 332.8

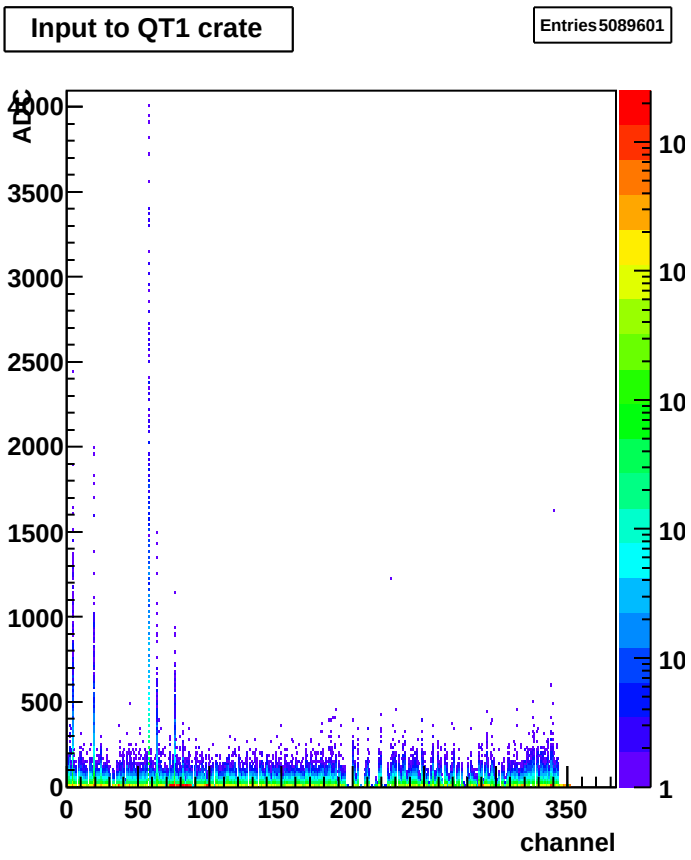

BBClarge-TAC-W
Entries 465693
Mean 1432
RMS 340.9

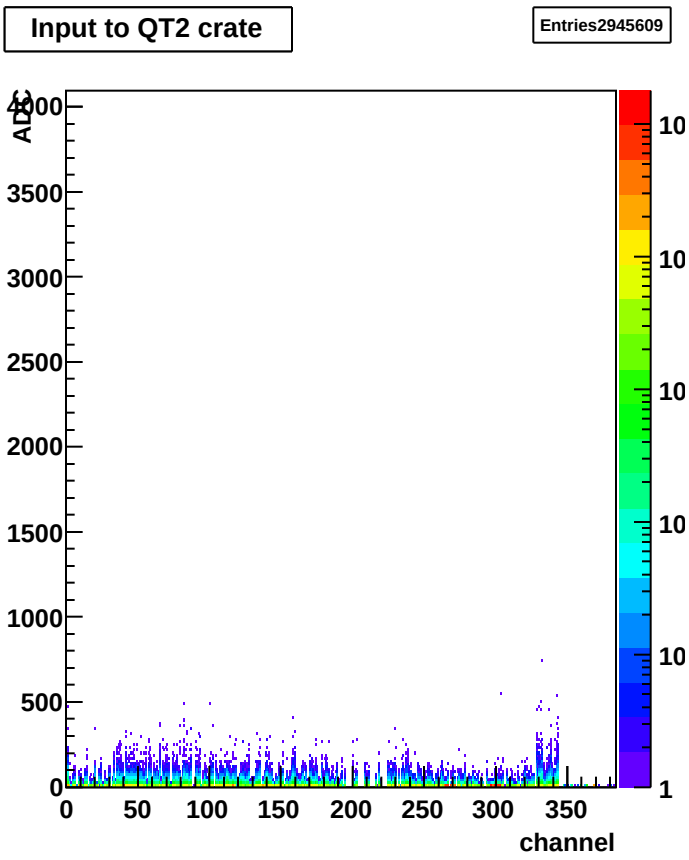

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 442525
Mean 4071
RMS 444

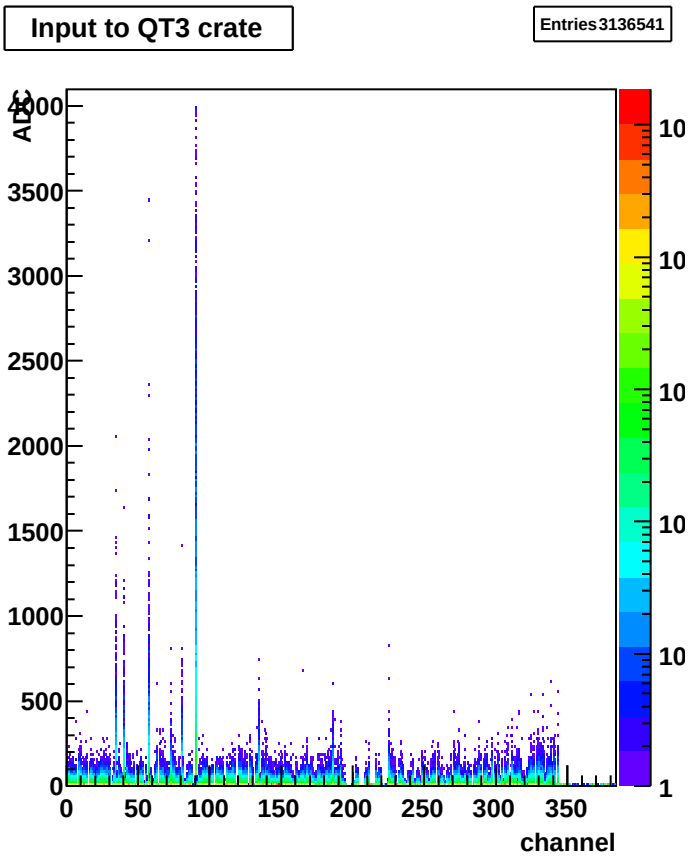

VPD-TAC-E
Entries 268778
Mean 1305
RMS 173.4

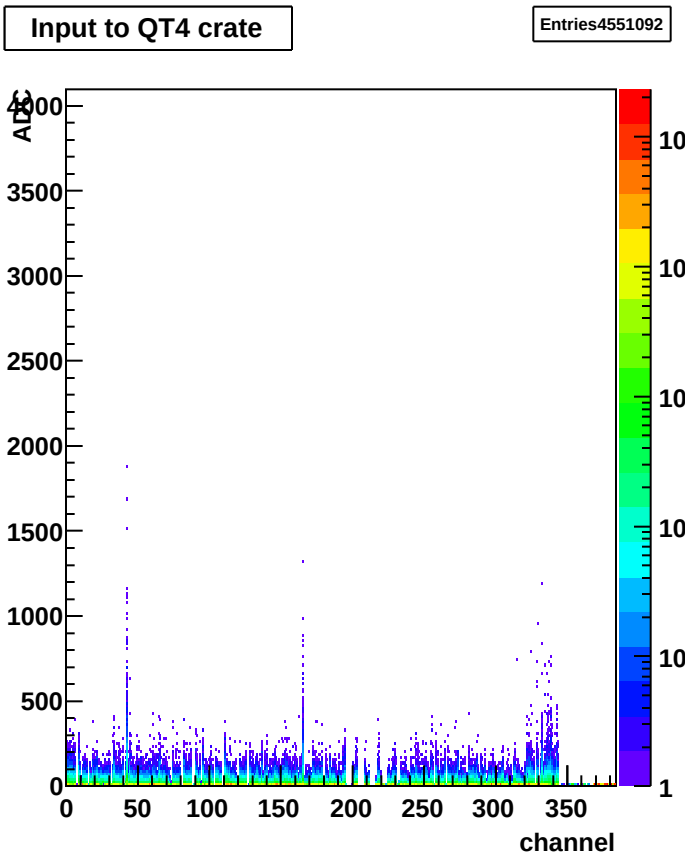

VPD-TAC-W
Entries 272169
Mean 1420
RMS 183.7

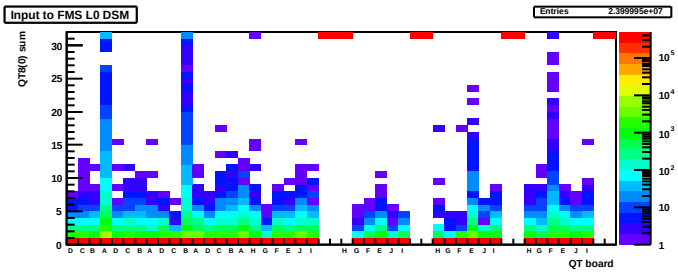

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 150595
Mean 3981
RMS 225.3

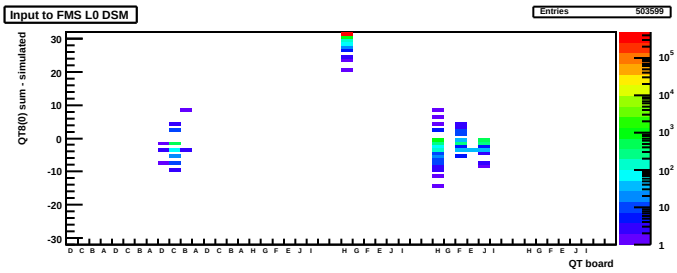

Input to QT1 crate
Entries 5089601
ADC
channel

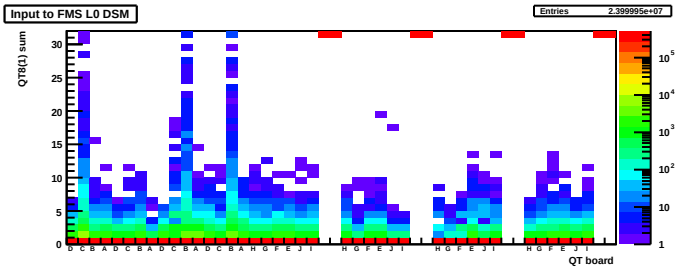

Input to QT2 crate
Entries 2945609
ADC
channel

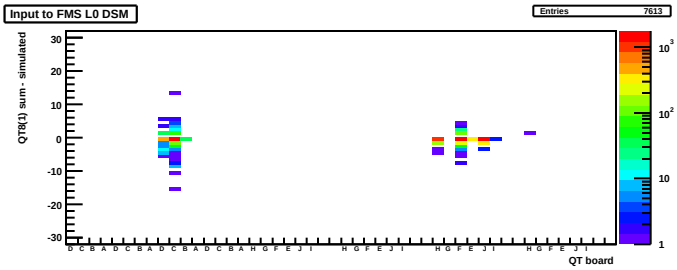

Input to QT3 crate
Entries 3136541
ADC
channel

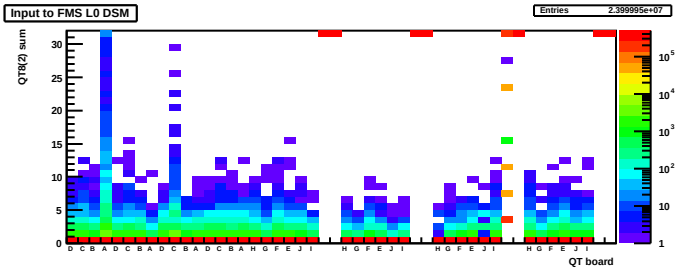

Input to QT4 crate
Entries 4551092
ADC
channel

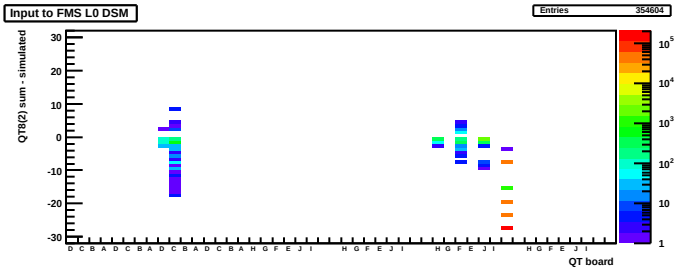

Input to FMS L0 DSM
Entries 2.399995e+07
QT8(0) sum
QT board

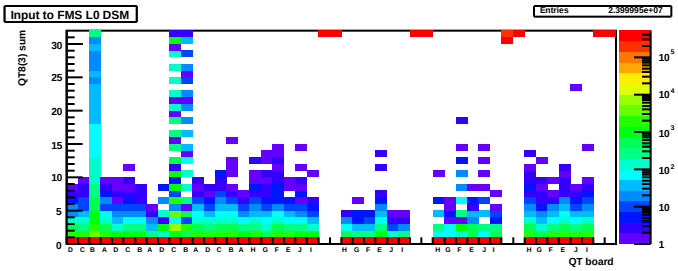

Input to FMS L0 DSM
Entries 503599
QT8(0) sum - simulated
QT board

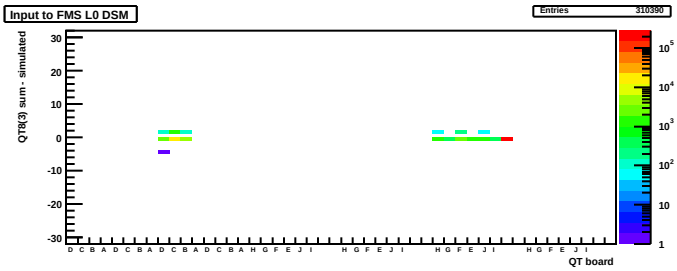

Input to FMS L0 DSM
Entries 2.399995e+07
QT8(1) sum
QT board

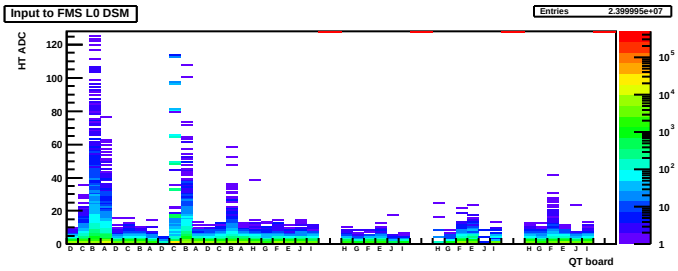

Input to FMS L0 DSM
Entries 7613
QT8(1) sum - simulated
QT board

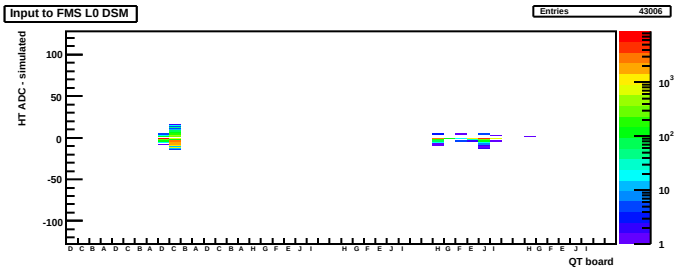

Input to FMS L0 DSM
Entries 2.399995e+07
QT8(2) sum
QT board

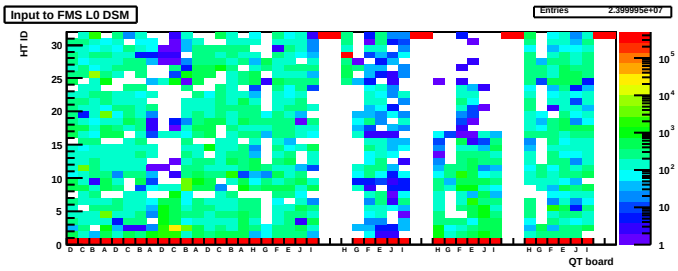

Input to FMS L0 DSM
Entries 354604
QT8(2) sum - simulated
QT board

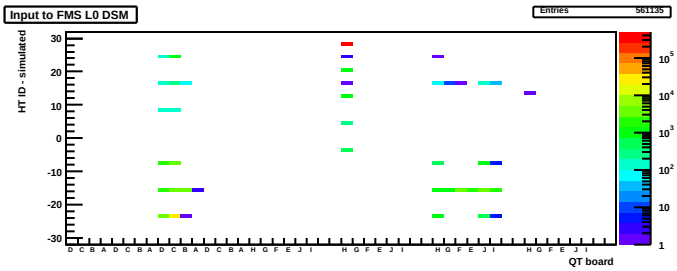

Input to FMS L0 DSM
Entries 2.399995e+07
QT8(3) sum
QT board

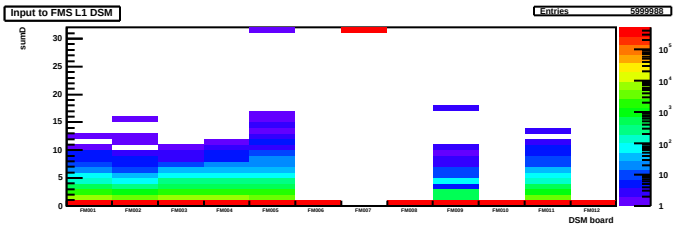

Input to FMS L0 DSM
Entries 310390
QT8(3) sum - simulated
QT board

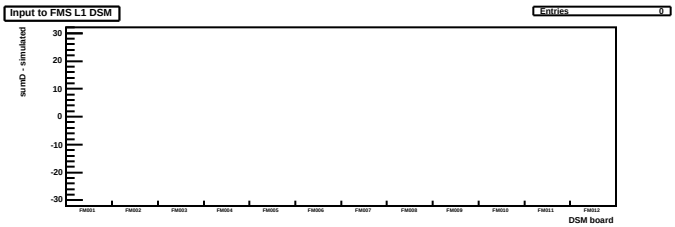

Input to FMS L0 DSM
Entries 2.399995e+07
HT ADC
QT board

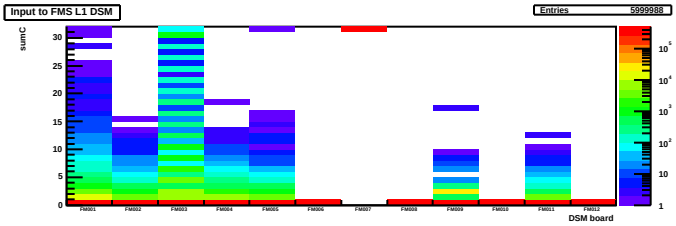

Input to FMS L0 DSM
Entries 43006
HT ADC - simulated
QT board

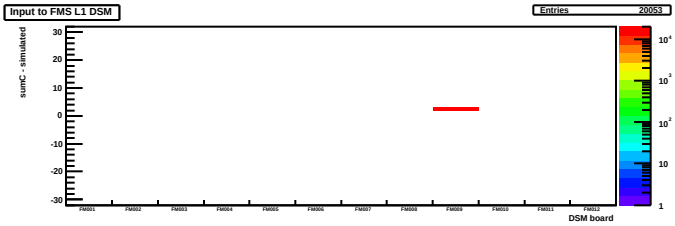

Input to FMS L0 DSM
Entries 2.399995e+07
HT ID
QT board

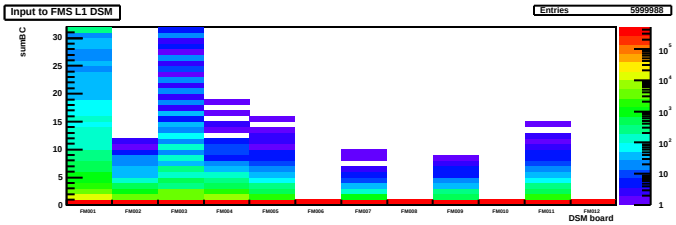

Input to FMS L0 DSM
Entries 561135
HT ID - simulated
QT board

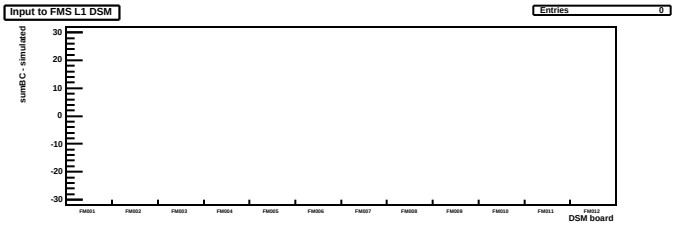

Input to FMS L1 DSM
Entries 5999988
sumD
DSM board

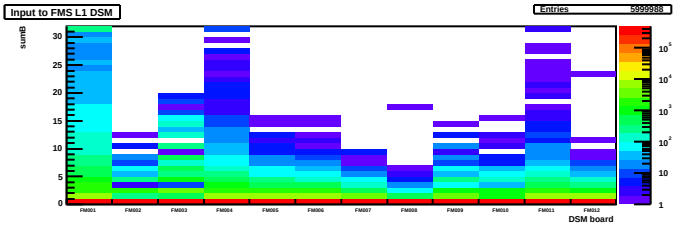

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

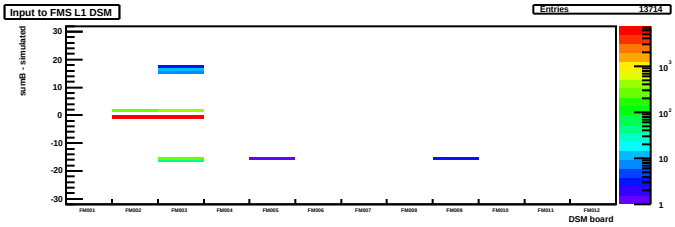

Input to FMS L1 DSM
Entries 5999988
sumC
DSM board

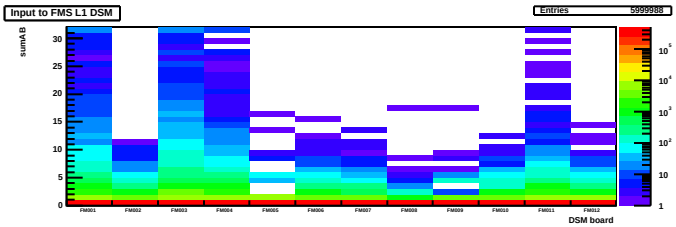

Input to FMS L1 DSM
Entries 20053
sumC - simulated
DSM board

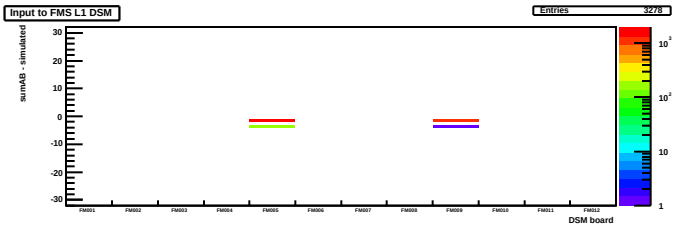

Input to FMS L1 DSM
Entries 5999988
sumBC
DSM board

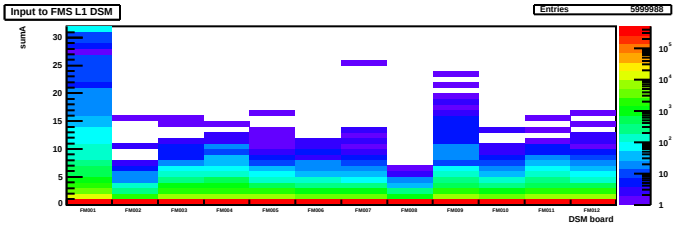

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

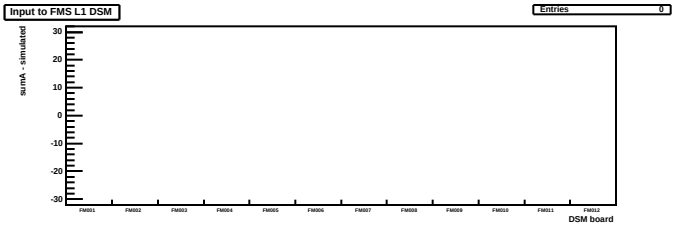

Input to FMS L1 DSM
Entries 5999988
sumB
DSM board

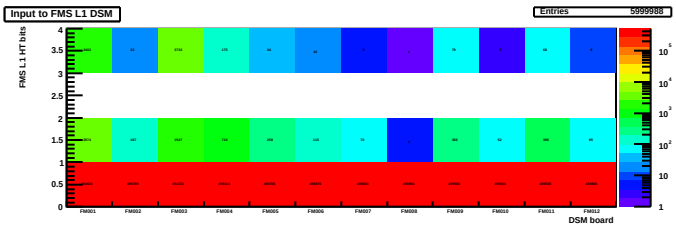

Input to FMS L1 DSM
Entries 13714
sumB - simulated
DSM board

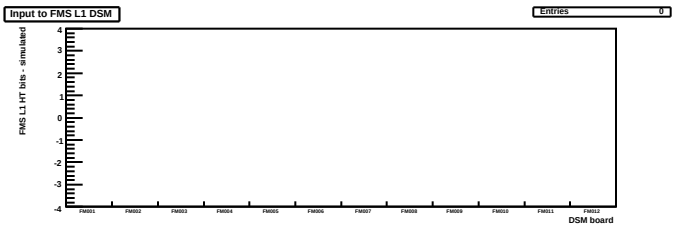

Input to FMS L1 DSM
Entries 5999988
sumAB
DSM board

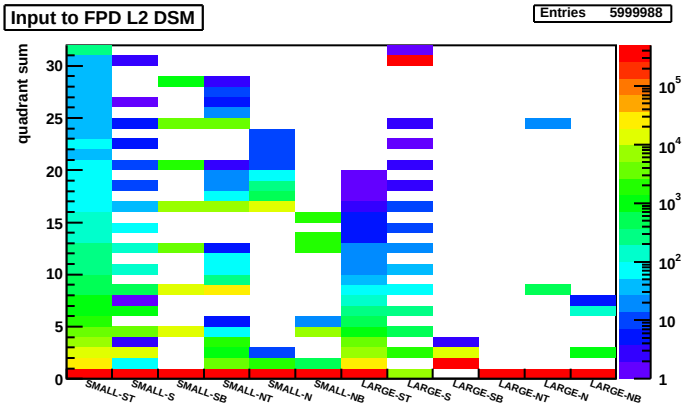

Input to FMS L1 DSM
Entries 3278
sumAB - simulated
DSM board

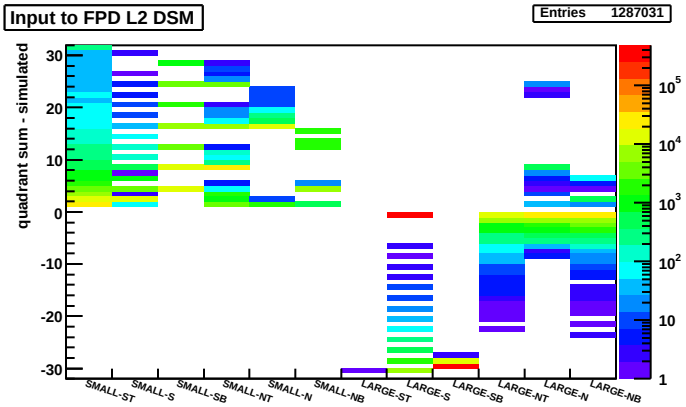

Input to FMS L1 DSM
Entries 5999988
sumA
DSM board

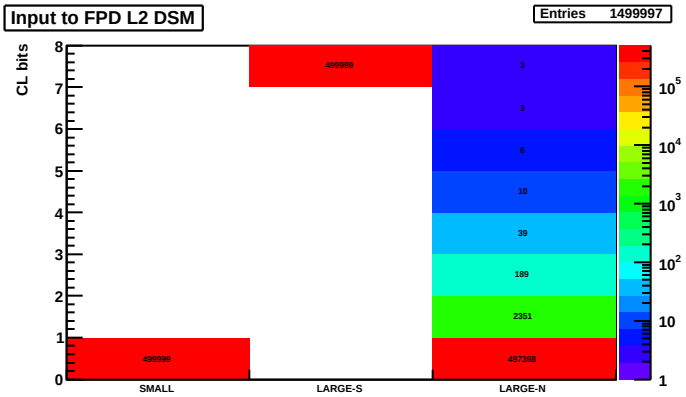

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

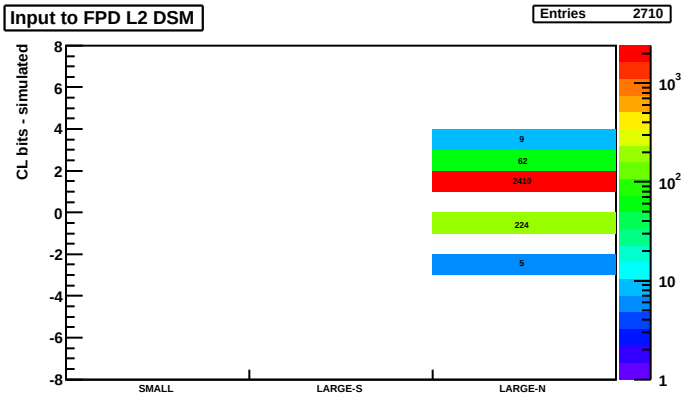

Input to FMS L1 DSM
Entries 5999988
FMS L1 HT bits
DSM board

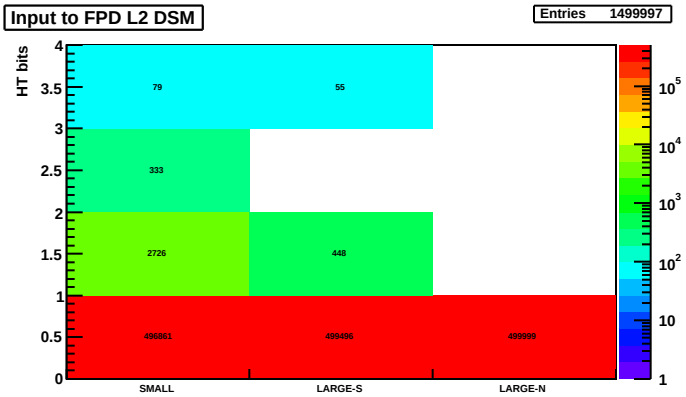

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

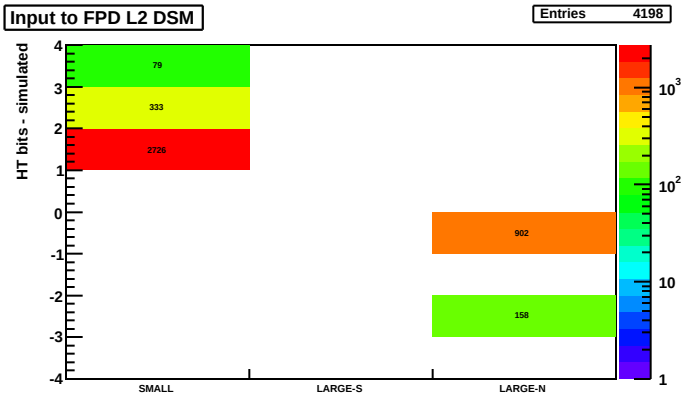

Input to FPD L2 DSM
Entries 5999988
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

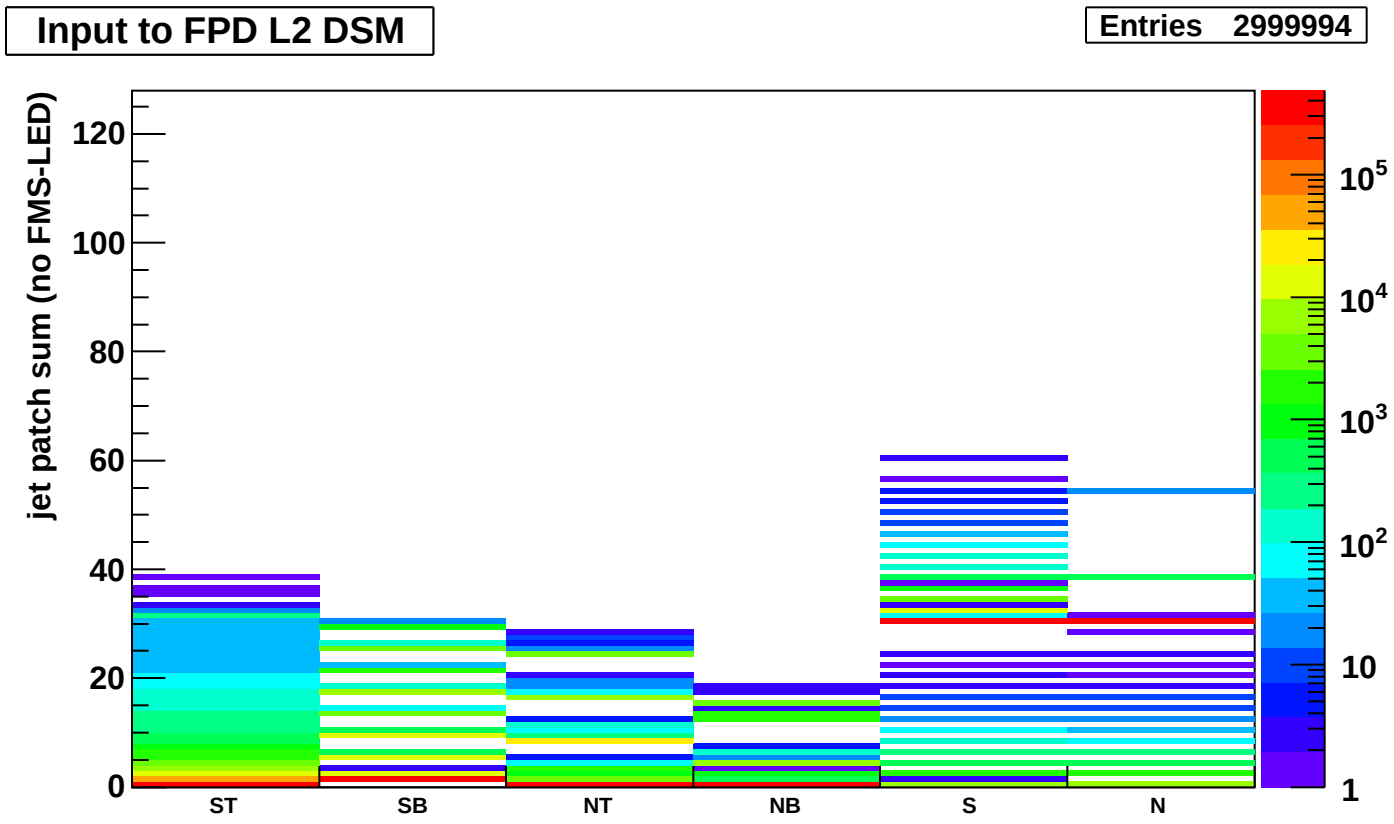

Input to FPD L2 DSM
Entries 1287031
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

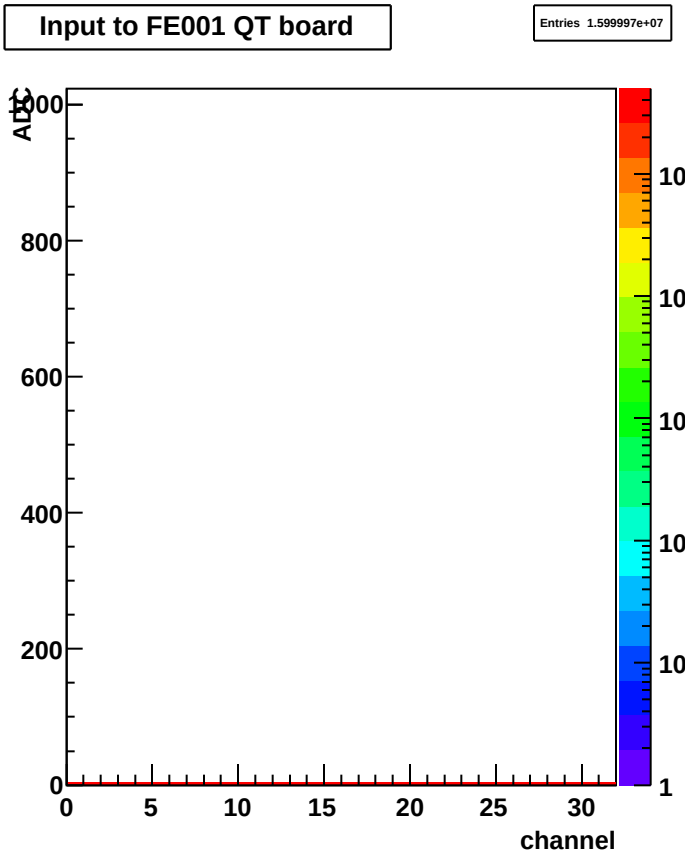

Input to FPD L2 DSM
Entries 1499997
CL bits
499999
3
3
6
10
39
189
2351
499999
497398
SMALL
LARGE-S
LARGE-N

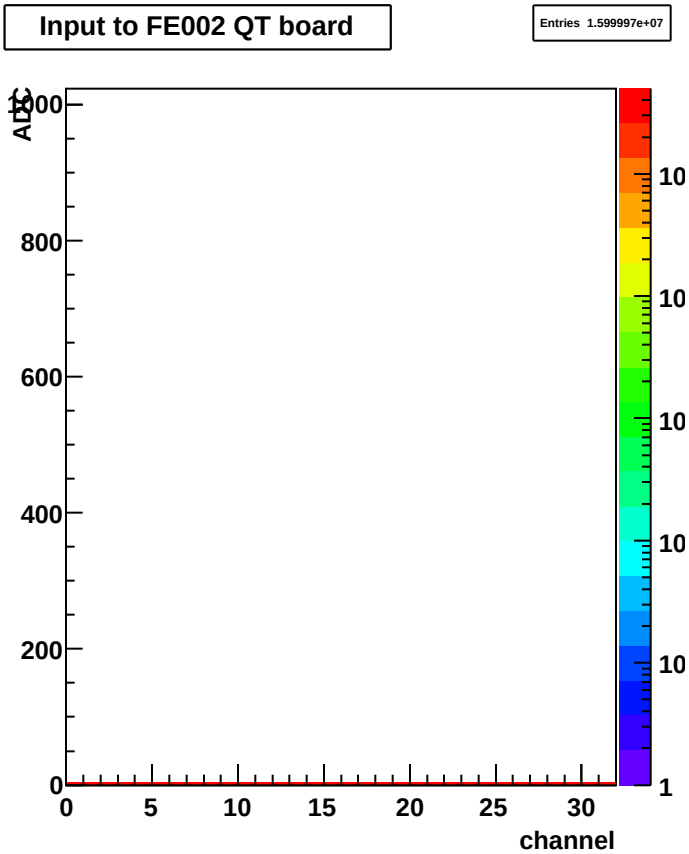

Input to FPD L2 DSM
Entries 2710
CL bits - simulated
9
62
2410
224
5
SMALL
LARGE-S
LARGE-N

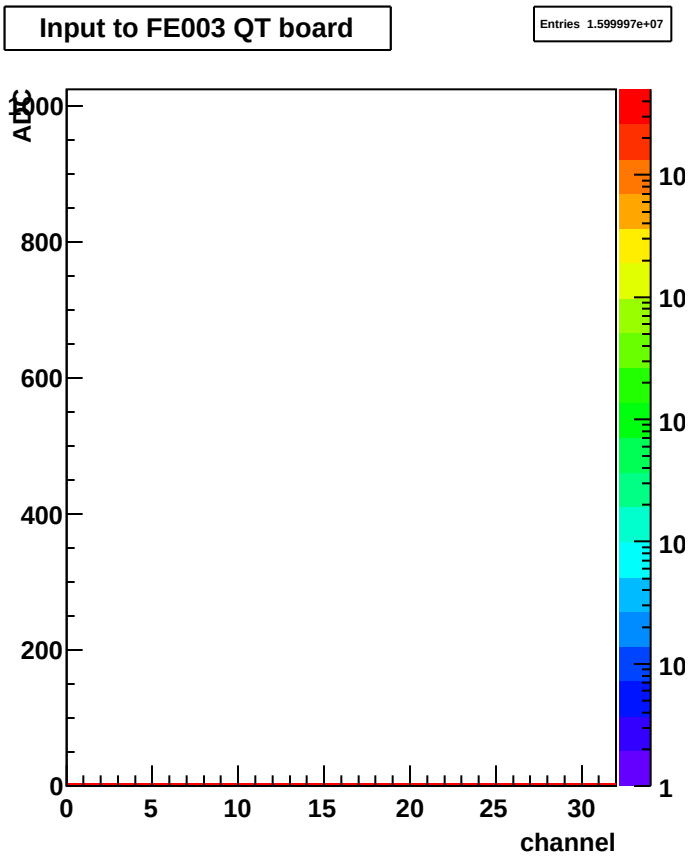

Input to FPD L2 DSM
Entries 1499997
HT bits
79
55
333
2726
448
496861
499496
499999
SMALL
LARGE-S
LARGE-N

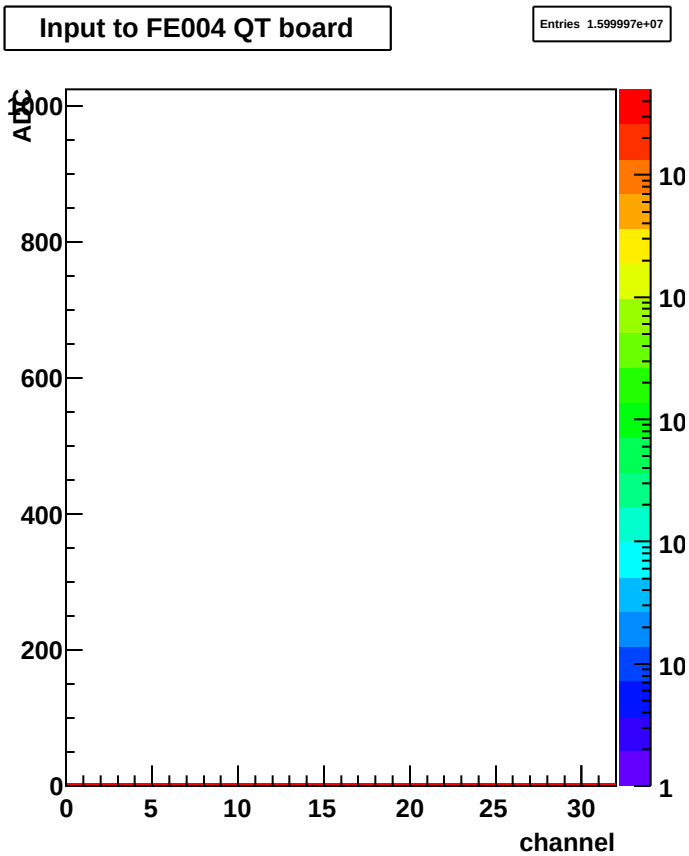

Input to FPD L2 DSM
Entries 4198
HT bits - simulated
79
333
2726
902
158
SMALL
LARGE-S
LARGE-N

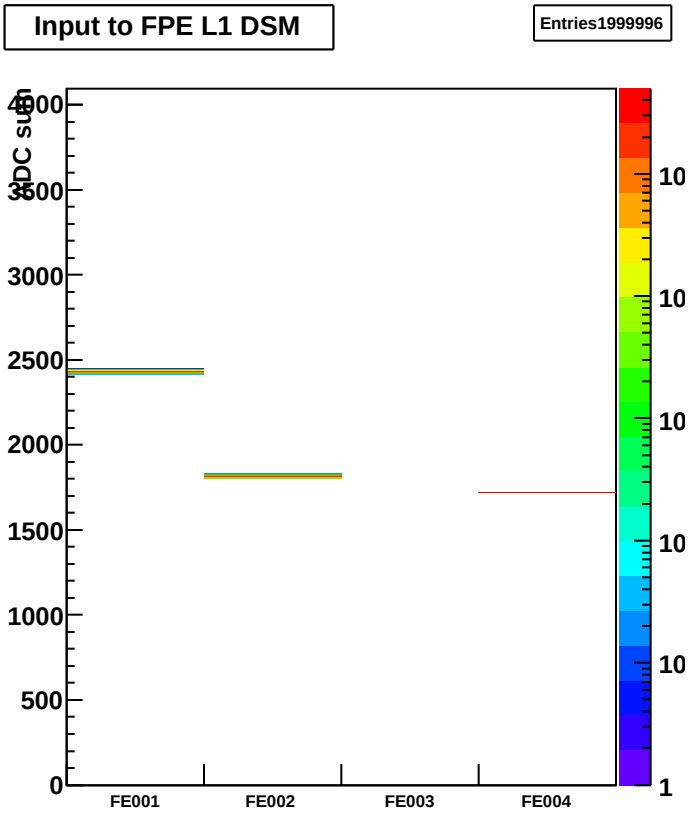

Input to FPD L2 DSM
Entries 2999994
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

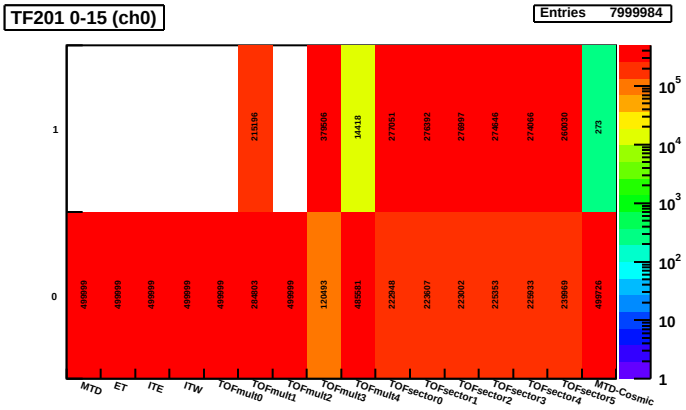

Input to FE001 QT board
Entries 1.599997e+07
ADC
channel

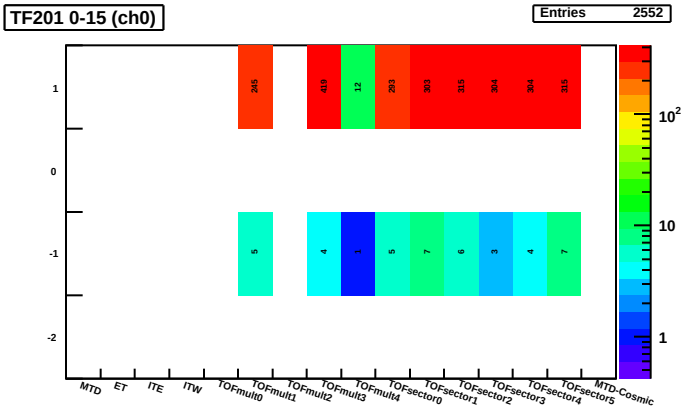

Input to FE002 QT board
Entries 1.599997e+07
ADC
channel

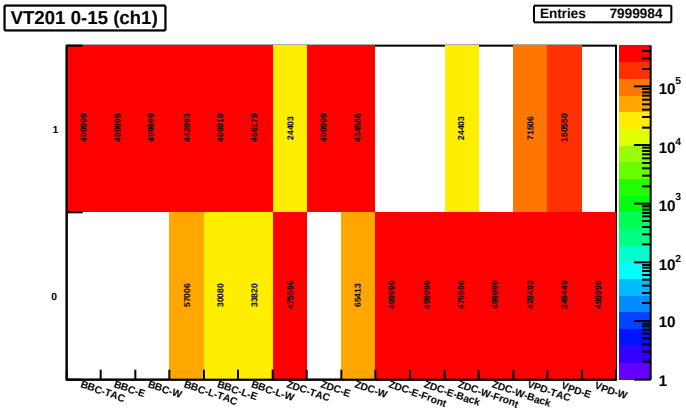

Input to FE003 QT board
Entries 1.599997e+07
ADC
channel

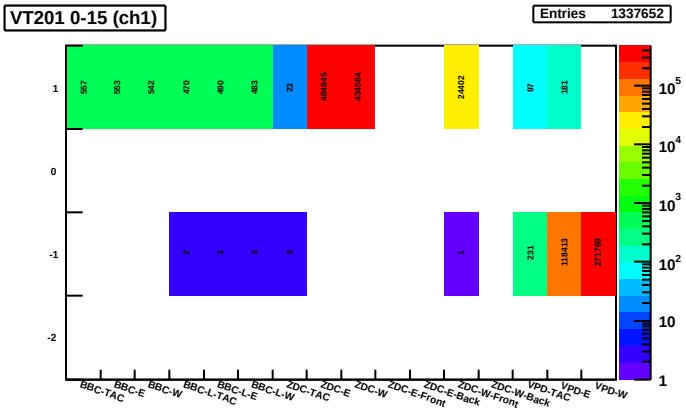

Input to FE004 QT board
Entries 1.599997e+07
ADC
channel

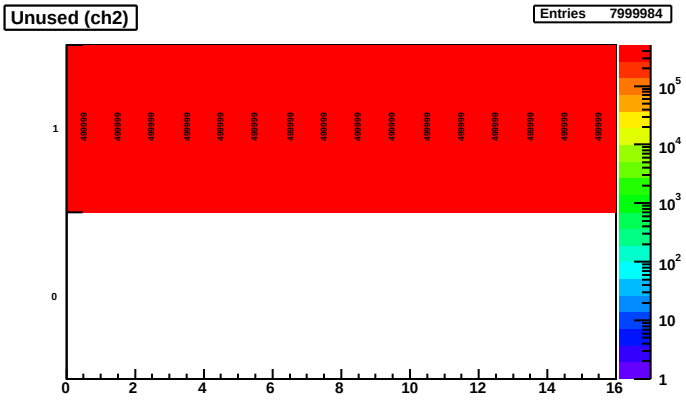

Input to FPE L1 DSM
Entries1999996
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

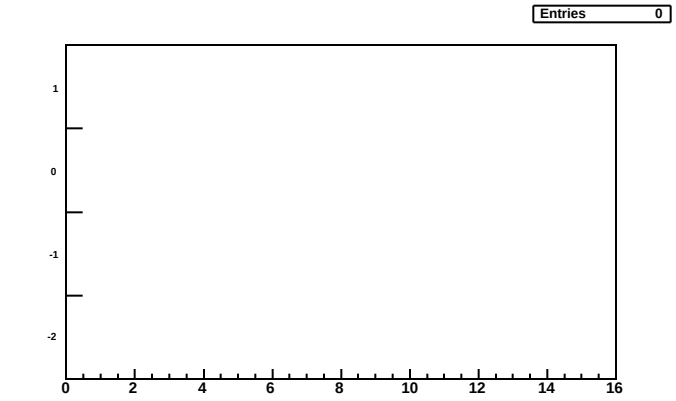

TF201 0-15 (ch0)
Entries 7999984
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

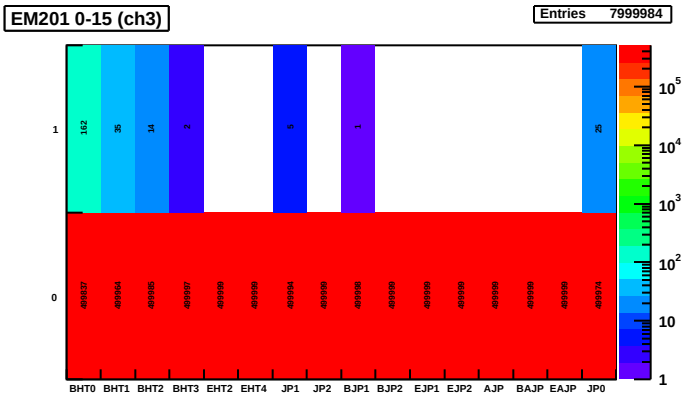

TF201 0-15 (ch0)
Entries 2552
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 7999984
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1337652
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 7999984


Entries 0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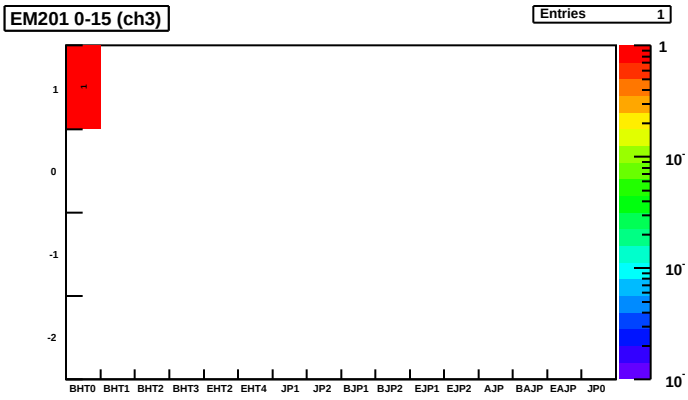
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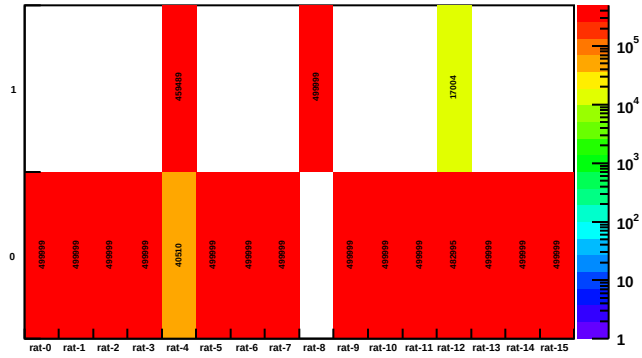
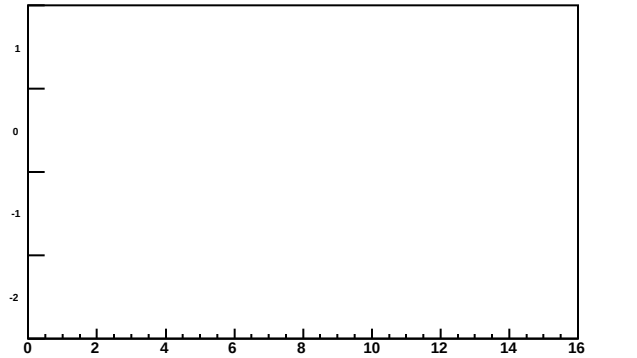
RAT board (ch4)





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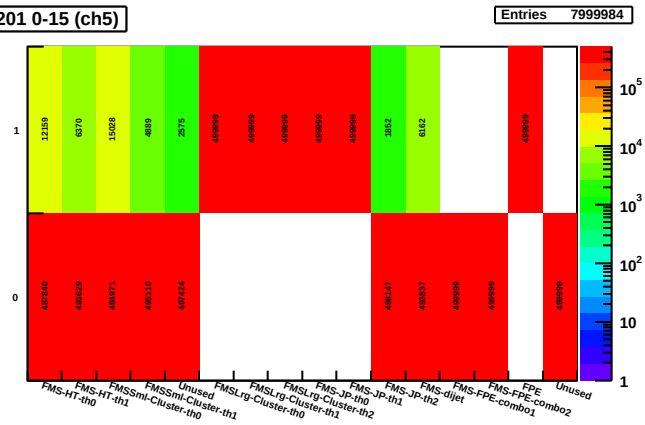

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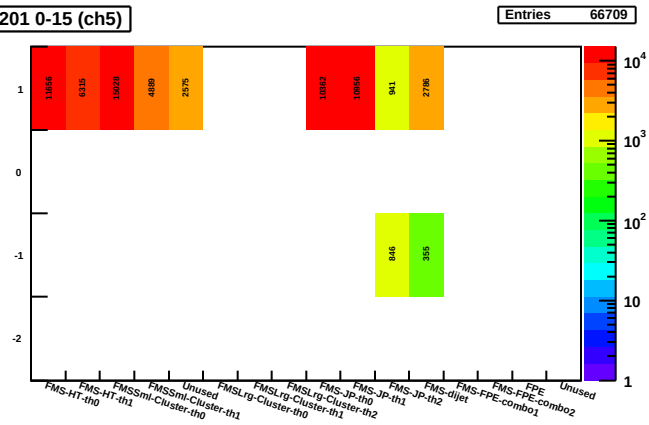

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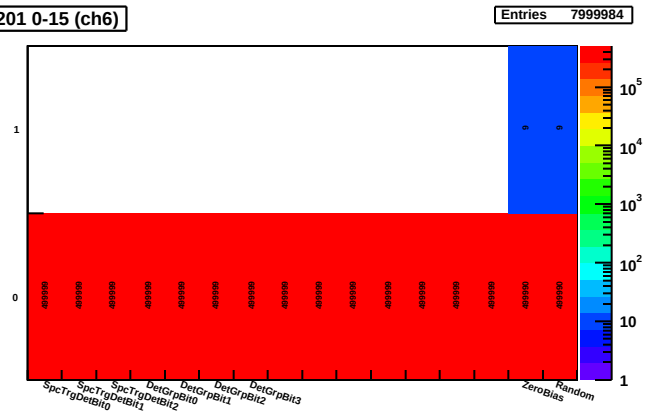

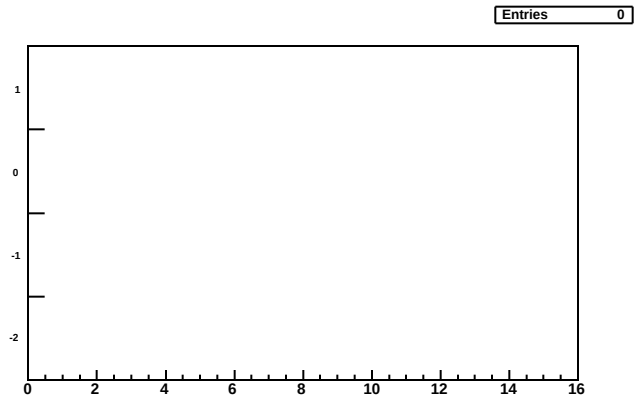
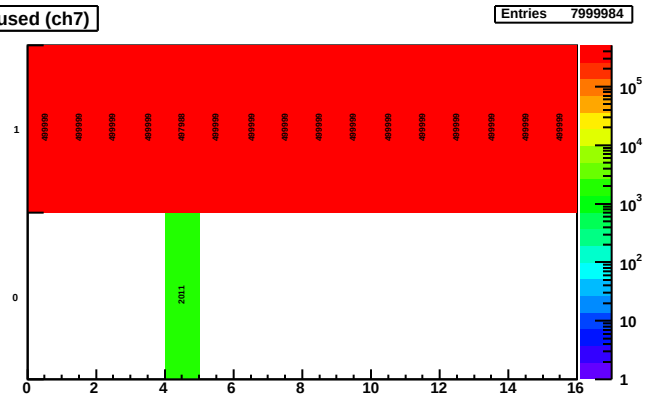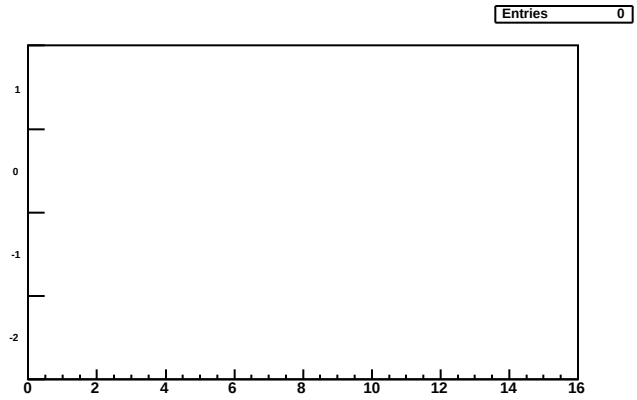
Unused (ch7)